

105/40

Access DB# 45951

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Richard Fujita Examiner #: 78528 Date: 7/2/91
Art Unit: 2164 Phone Number 305-5416 Serial Number: 04334131
Mail Box and Bldg/Room Location: 1A2 5703 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

System for depositing & submitting continuing paper and electronic
Title of Invention: Financial instruments in the payment system and for effecting
the payment thereof

Inventors (please provide full names): Terry Geer

Earliest Priority Filing Date: 5/10/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Independent claims are #s 1 & 4, with keywords
undelimited. The basic invention is one of a) doing
most of the check processing at the bank to which
they are first presented & converting checks to
electronic format to commingle with original
electronic funds transfers and b) throwing away (in
most cases) ~~the~~ the original paper check after
it has been converted to electronic format.
Everything else described is known in process
money transfers with these two variations involved.
This application is a continuation in part of US 5,583,759.

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	Type of Search	Vendors and cost where applicable
Searcher: <u>David Hollaway</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>308-7794</u>	AA Sequence (#) _____	Dialog <u>\$10.75</u>
Searcher Location: <u>(PH2 4R3)</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>7-25-01</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>7-26-01</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>75</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>203</u>	Other _____	Other (specify) _____

Examiner Fults:

Attached please find the results of your search request re:
System for depositing & submitting paper & electronic checks.

Please let me know if you would like to try a different search strategy
or additional terminology in a refocused search.

David Holloway
308-7794

Set	Items	Description
S1	4	AU=(GEER T? OR GEER, T?)
S2	41425	(BANK? OR PERSONAL? OR BUSINESS?) (3N) (CHECK? OR CHEQUE? OR DRAW? OR WITHDRAWAL? OR DRAFT? OR DRAUGHT?) OR FINANCIAL() INSTRUMENT?
S3	2501	S2 (S) (CONVERT? OR SCAN? OR DIP OR IMAGE? OR IMAGING OR DIGITIZE? OR TRANSLATE? OR CONVERSION)
S4	21339	(PRIOR? OR BEFORE? OR FIRST? OR ANTE) (3N) (SUBMIT? OR SUBMISSION? OR TRANSMISSION? OR TRANSMIT? OR SEND? OR DELIVER?)
S5	1338633	(BANK? OR INSTITUTION? OR SAVINGS(N) LOAN OR CREDIT() UNION?)
S6	89553	(PAPER? OR HARDCOP? OR HARD() (COPY OR COPIES) OR PRINTED) - AND (ELECTRONIC? OR DIGITAL? OR VIRTUAL? OR CYBER? OR DIGITIZED)
S7	52758	S6 AND (COMMINGL? OR INTERMINGLED OR COMBINE? OR BOTH? OR MIXED OR INTERMIXED OR HETEROGEN?)
S8	585760	SETTLEMENT? OR PRESENT? OR PAYOR? OR PAYEE?
S9	125111	(MULTIPL? OR SEVERAL? OR PLURAL? OR MANY OR ADDITIONAL? OR SECOND OR 2ND) (4N) S5
S10	8	S3 (10N) S4
S11	187	S3 (10N) S7
S12	606	S2 (10N) S7
S13	137	S3 (10N) S9
S14	341	S3 (10N) S6
S15	2886	S5 (S) S7 (S) (S8 OR S9)
S16	12	S3 AND S4 AND S7
S17	71	S3(S) S7(S) S8
S18	66	S17(S) S5
S19	16	S18(S) S9
S20	0	S1 AND S3
S21	33	S10 OR S16 OR S19
S22	33	RD (unique items)
S23	24	S22 NOT PY>1998
S24	24	S23 NOT PD>980510
File	47:	Gale Group Magazine DB(TM) 1959-2001/Jul 25 (c) 2001 The Gale group
File	635:	Business Dateline(R) 1985-2001/Jul 26 (c) 2001 ProQuest Info&Learning
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24/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
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04210316 SUPPLIER NUMBER: 16742780 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Banking on cooperation. (Financial Services Technology Consortium) (PCWeek Executive)
Radosevich, Lynda
PC Week, v12, n12, pE4(1)
March 27, 1995
ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1103 LINE COUNT: 00086

ABSTRACT: **Several banks** have formed the Financial Services Technology Consortium (FSTC), including Citibank, **Bank** of Boston and Chase Manhattan, to implement a pilot inter-bank **check -imaging** program in Apr 1995. The program aims to use technology to cut the current 12 cent per check processing fee by **scanning** checks and sending out **digitized images** over a high-speed network. The US **banking** industry is looking for a competitive edge in the global market. The key to the on-line strategy centers on whether the FSTC can accomplish what none of the **banks** can do alone. Full-**image** interchange has been slowed by the restrictions of proprietary systems and by mandates that require **banks** to send **paper checks** for payment. Initial interchange work is being handled by **Electronic Check Presentment (ECP)**, a method that transmits **check** information between **banks** before a **paper check** is sent.

How? Instead of shuttling tons of **paper** among them every night, banks could use technology to scan checks and zap the **digitized** images over high-speed networks. By some estimates, this could save 30 percent of the...

...business over public networks such as the Internet as well as its potential role in **electronic** commerce. In doing so, the FSTC hopes to assure the banking industry a prosperous place...

...example of a technology dragon the banks could not have slain individually.

Most banks use **imaging** to ameliorate in-house check handling, but full-**image** interchange has been stymied by the limitations of proprietary systems and by regulations that require **banks** to send **paper checks** for payment. Preliminary interchange work is being done via **Electronic Check Presentment (ECP)**, a technique for transmitting **check** information between **banks** before they send on the **paper**.

The FSTC's interbank check-imaging project proposes to let the bank of first deposit scan a check and store the image, rather than sending a **paper** version on. As part of the project, the FSTC is proposing extensions to ECP for tracking the location of stored **check images** so **banks** can later access them.

To address standards and legal challenges, the FSTC has enlisted help from the **Electronic Check Clearing House Organization**. ECCHO and FSTC are collaborating to change the regulations that require **paper** checks for payment and are proposing to add image-enabling functions to the American National...

...of 1.2 to 2.5 full-time employee s for two years.

Even with **combined** forces, it will take significant effort to pull off the project, say experts, who predict...

...proof.

For the pilot, the FSTC plans to use secure, point-to-point Integrated Services **Digital** Network or frame-relay lines, rather than the Internet. The project will also use authentication...

...cryptography techniques such as the National Institute of Standards and Technology's secure hashing and **digital** signature algorithms.

Despite these hurdles, the future seems more secure because of the sharing of...

24/3,K/2 (Item 2 from file: 47)
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03900775 SUPPLIER NUMBER: 13562316 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The bank and its customer: tomorrow's virtual reality bank. (speech by Robert P. Barone) (Transcript)
Vital Speeches, v59, n9, p282(5)
Feb 15, 1993
DOCUMENT TYPE: Transcript ISSN: 0042-742X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4896 LINE COUNT: 00378

The bank and its customer: tomorrow's virtual reality bank. (speech by Robert P. Barone) (Transcript)

... themselves to respond quickly with readily available technology.
In the computer field, the future is **Virtual Reality**, which allows the user to become a component of a computer-generated environment - actually experiencing, altering and interacting with the computer program as participant within the model.

Virtual Reality has numerous applications in the areas of architectural design, surgery, military training, product development...

...come out in a year or two. Coming soon in real life, surgeons will use **Virtual Reality** to see what is going on in a patient's body as they operate. Already, **Virtual Reality** has been used in the courtroom to recreate a crime scene, in military exercises...

...board - or, more accurately, inside the computer.

In the future, the customer also will use **Virtual Reality** to visit the bank. This will allow instant access to financial services from any...

...are setting our sights on making this idea a reality through the development of the **Virtual Bank**. Offering everything that is normally available at the traditional branch, including access to real-live bank personnel for individual consultation, the **Virtual Bank** will have everything a traditional branch has, except a roof, floor, walls and vaults. The **Virtual Bank** will not address the need for security of assets and records. We have other...

...serve those needs, but that is a subject for another time.

For the consumer, the **Virtual Bank** will mean added convenience. For the financial institution, it will mean three things:

- Less...

...branches;

- Greater access to more markets by taking the bank to wherever people might be, **both** within and outside the bank's traditional geographic territory; and

- Additional opportunities to broaden relationships...

...that are in use or under development today will be the building blocks for the **Virtual Bank**. Automated tellers and self-service terminals using "smart cards" will handle the basic transactions...

...interaction with bank personnel when necessary.

Telephone connections and personal computer link-ups will provide **virtually** unlimited access to the bank from wherever the customer might be. Low-cost telecommunications technology...

...in-a-pocket," "cellular bank" and "mobile bank" will become commonplace.

Some elements of the **Virtual Bank** concept already have been put to use to a certain extent. One bank reports...

...service representatives, already have become part of the established distribution paradigm. These branches meet the **Virtual Bank** concept halfway - moving the branch to where the people are and reducing the bank

...
...they don't go far enough. They are not as convenient and versatile as the **Virtual Bank**.

Each of these systems has a definite place in banking, but will they make...

...want to bore you with a lot of statistics, but here are two meaningful ones, **both** contained in a Mentis Corporation study on alternative retail **delivery** systems:

- **First**, more than 60 percent of regular ATM users - those who use ATMs at least seven...true as they grow older, indicating that they will accept modest fees for more complicated **electronic** services.

From a separate study - the "Vision 2000" report on the future of banking, co...

...customers want to see and tie it all up in one package, you have the **Virtual Bank**, which **combines** customer convenience and self-service with cost-efficiency and marketing potential. The **Virtual Bank** provides quick, round-the-clock service from an unlimited number of locations, while at...

...s take a closer look at the hardware and software that will make up the **Virtual bank**.

Self-service technology will be the heart of the **Virtual Bank**. Withdrawals, deposits, bill payments, check cashing, point-of-sale debt transactions, travelers checks, coupons...

...with the systems we already have in place today.

If self-service technology is the **Virtual Bank's** heart, then the "smart card" will be its brain. The smart card is...

...marital status, income and net worth. Using the information stored in the smart card, the **Virtual Bank** will be able to credit or debit the account, print out-up-to-the...change old paradigms. In the past year, for example, we worked with one of our **bank** customers to introduce **check - imaging** ATMs that have increased consumer confidence and reduced the work involved in processing checks. The...

24/3,K/3 (Item 1 from file: 267)
DIALOG(R)File 267:Finance & Banking Newsletters
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00035594

Euromoney Supplement on Russia, Great expectations

Euromoney

September 00, 1997 PAGE: 311, 313 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: EUROMONEY ELECTRONIC PUBLICATIONS

LANGUAGE: ENGLISH

WORD COUNT: 1742

RECORD TYPE: FULLTEXT

(c) EUROMONEY ELECTRONIC PUBLICATIONS All Rts. Reserv.

TEXT:

...or foreign investors will not be willing to take the extra risk.

Russia's central **bank** is preparing to set up a domestic corporate bond market to make it easier for...

...the six-month maturity from 75% to 17%. Promissory notes issued by Russian companies and **banks** yield from about 25% to 100% at maturities of between two and six months, reflecting...

...pure corporate debt.

Following the lead of Poland and the Czech Republic, the Russian central **bank** is launching in the autumn a pilot programme for a secured corporate debt market.

...international investors.

Rouble-denominated corporate bonds would be more attractive to investors if they were **convertible** into shares, Smyslov believes. But since the amount of debt is so high, the shares required to back **convertible** bonds would be substantial. "I don't think they will have huge success with a corporate bond market without brilliant and creative ideas on how to **convert** the bonds into shares," he says.

Many Russian blue-chip companies such as UES, Mosenergo, Gazprom and Rostelekom plan Eurobond issues as a cheaper source of financing relative to domestic **bank** loans and share issues. But, according to fixed-income analyst Andrei Yashchenko at the Moscow-based investment **bank** United City **Bank**, the Eurobond plans announced by dozens of Russian companies are unrealistic. He predicts the strengthening rouble and an undercapitalized **banking** system will result in the domestic corporate bond market developing faster than is expected.

A thriving corporate bond market should have a strong appeal for issuers and offer an **additional** funding source to **bank** loans and Eurobonds, according to Alan Apter, a managing director of Renaissance Capital in Moscow. Apter outlined several advantages that corporate bonds would have over Eurobonds in a recent **presentation** in London. The rouble bonds would reduce exposure to exchange rate fluctuations, have less stringent...

24/3,K/4 (Item 2 from file: 267)

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00035583

Euromoney Supplement on India, Three steps forward

Euromoney

September 00, 1997 PAGE: 190, 195 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: EUROMONEY ELECTRONIC PUBLICATIONS

LANGUAGE: ENGLISH

WORD COUNT: 3434

RECORD TYPE: FULLTEXT

(c) EUROMONEY ELECTRONIC PUBLICATIONS All Rts. Reserv.

TEXT:

A budget, a new credit policy and a report into currency **convertibility**, all introduced in the first half of this year, have boosted investor confidence. Phillip Moore...

...a 24-month high, and there has been an explosion in sales of domestic commercial **paper**. A wide range of leading Indian companies have been prompted to tap the international capital...

...of India's long-term

problems," says Sanjeev Mohta, head of research at HSBC Investment **Banking** in Mumbai. "But it sent out the important signal that economics and politics are finally being divorced."

Then, in April, the Reserve **Bank** of India announced a so-called "big bang credit policy" together with an interest rate cut. Finally, at the beginning of June, came a report prepared by former Reserve **Bank** deputy governor SS Tarapore, which officially charted a "road map" for India to make the rupee **convertible** for capital-account transactions. If the recommendations of the report are fully implemented (and it...

...of the right places."

24/3,K/5 (Item 3 from file: 267)
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00028692

BANKERS SCRAMBLE TO OFFER EDI, EFT SOLUTIONS Government Mandate Prompts Industry Action

TREASURY MANAGER'S REPORT

July 18, 1997 VOL: 5 ISSUE: 15 DOCUMENT TYPE: NEWSLETTER

PUBLISHER: PHILLIPS BUSINESS INFORMATION

LANGUAGE: ENGLISH

WORD COUNT: 1275

RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

Companies are about to get some help moving reluctant **banks** and trading partners to financial **electronic** data interchange (EDI).

The U.S. Treasury and the Federal Reserve want to ensure **banks** and businesses have easy access to EDI and **electronic** funds transfer (EFT) to facilitate EFT '99 -- the federal government's transition from **paper** to **electronic** transactions, to be completed by Jan. 1, 1999.

A Federal Reserve committee, headed by Vice Chair Alice Rivlin, is studying whether the Fed and the **banking** system offer sufficient incentives for **electronic** commerce. A report is due by the end of the summer.

One alternative being considered is opening the payment system to for-profit service providers, which makes **bankers** quake. "I do think the Federal Reserve has been more open than traditional financial **institutions** would have preferred they be to third-party access," says Barbara Utendorf, vice president with Cincinnati-based Fifth Third **Bank** [FITB].

But while most **banks** aren't even EDI-capable, software developers and entrepreneurs are offering EDI solutions, Internet transaction...

...able to open the eyes of some officials who have the ability to change the **banking** laws," Utendorf says.

Getting The Message

Banks have been slow to adopt **electronic** commerce, citing the cost, complexity and, most of all, slack demand. "This should not be...

...Jim Wells, consultant with Washington-based Furach & Co. Government regulators and lawmakers apparently agree and **bankers** are getting the message.

The Chicago-based Financial Services Technology Consortium (FSTC), the **Banking** Industry Technology Secretariat (BITS) of the **Banker**'s Roundtable in Washington and the National Automated Clearing House Association (NACHA) in Herndon, Va., all have initiatives under way to help **banks** catch up.

NACHA just issued a proposed rule change requiring member **banks** to be EDI-capable. If approved, Utendorf, who headed the task force that drafted the...

...in financial EDI.

"Many corporations have hesitated to adopt financial EDI because they know most **banks** can't deliver it ... [But] I think there'll be a domino effect if **virtually** every financial **institution** becomes financial EDI-capable in preparation for EFT '99."

Also under way are efforts to make EDI and the automated clearing house (ACH) more user friendly, or even unnecessary, for **electronic** commerce.

Narrowing **Settlement** Risk

Even if most **banks** become EDI-capable, **many** are wary of promoting the ACH for high dollar trade payments because of delayed **settlement**.

Banks and businesses typically wait until the next day, and sometimes longer, for ACH transactions to be considered final. The Fed is proposing an automated intraday **settlement** service that would allow **banks** to close the books on transactions on the day they occur (TMR, July 4, p that our **settlement** is no longer provisional is risky to us and we'd like to collapse that window," Utendorf says.

Narrowing **settlement** risk was at the forefront of a request for information (RFI) BITS issued earlier this year.

The RFI "put the Fed on notice, informally, that at least the major **banks** were serious about having a better capability to settle transactions on the ACH," says Furash's Wells, who helped **draft** the RFI.

The **Bankers** Roundtable, which sponsors BITS, is made up of the chief executive officers of the largest 125 **banks** in the United States -- **virtually** the only **banks** promoting **electronic** commerce.

But more than narrowing the **settlement** window on the ACH, the BITS RFI called for a new infrastructure to provide a real-time **electronic** payment system with open standards, which would allow **banks** to regain the upper hand in **electronic** commerce.

"BITS went back to some of the people who sent in responses to interview...

...real-time payment system," Wells says.

FSTC Focuses On The Internet

Another initiative is the **bank** Internet payment system (BIPS), a project sponsored by the FSTC, which is exploring the use of the Internet as a way to demystify **electronic** payments and bypass nonbank service providers.

"The complexity of EDI makes it difficult for anyone...

...contrast, O'Dell is hoping to establish a simple online interface that would allow a **bank** customer to initiate an **electronic** payment without knowing anything about EDI, the ACH or the payment system generally.

An Internet server would query the customer, then provide the necessary formatting and initiate the payment. Using **digital** signatures to provide authentication, **banks** could even guarantee good funds on behalf of customers thereby creating a "network of trust..."

...likens to the credit card authorization network.

Getting Rid Of The Middleman

By October, Mellon **Bank** [MEL] of Pittsburgh hopes to have a BIPS pilot under way. Several corporate customers of...

...of business evaluation and technology application at Mellon.

Mellon is actually one of the few **banks** already offering financial EDI via the Internet. But to use it, **both** ends of the EDI transaction have to have encryption and authentication software from Concord, Calif...

...not software dependent, but that will allow for Internet communications to any of the existing **banking** payment systems -- ACH, wire transfer, we hope to add credit cards and **electronic** check applications, potentially even ...represented as the Treasury, Federal Reserve and industry groups revamp the payment system to promote **electronic** commerce.

"We want to aggressively support a **conversion** away from **paper** checks to the **electronic** environment. We want to see systems that coincide with that goal," says PAG Chairman David...
...directly calling for heavy-handed tactics, Smay applauds NACHA's proposed rule change requiring member **banks** to be

EDI-capable. He also advocates a change in state labor laws allowing companies...

...so ingrained," he says. In fact, Smay sees check float as the biggest barrier to **electronic** commerce. "Everyone assumes they're making a little extra money by the float," but it...

...a very slow process. But I think it has to be done and if the **banks** don't do it, others will." (Nancy Atkinson, Mellon **Bank** , 412/234-7157; Debbie O'Dell, FSTC, 423/234-7157; David Smay, TMA, 301/907-2862; Barbara Utendorf, Fifth Third **Bank** , 513/579-5276; Jim Wells, Furash & Co., 202/331-8400.)
...

24/3,K/6 (Item 4 from file: 267)
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00000110

GROWTH IN CORPORATE IMAGING TOP STORY OF 1995
CORPORATE EFT REPORT
January 24, 1996 VOL: 16 ISSUE: 1 DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH WORD COUNT: 1424 RECORD TYPE: FULLTEXT

(c) PHILLIPS PUBLISHING INTERNATIONAL All Rts. Reserv.

TEXT:

Plan to offer **image** -based cash management applications this year if corporate customers make up a significant part of your business.

Interest in applications such as **image** archive and retrieval, **image** positive pay and CD-ROM delivery will continue to skyrocket, predicts David Medeiros, a consulting...

...Internet for transmitting sensitive data; the long-awaited introduction of Rapid*EDI; less interest in **electronic** data interchange (EDI); and more **banks** using **electronic check presentment** (ECP), say consultants in assessing last year's trends.

Banks Offer Image Processing

"As soon as enough large **banks** have installed **image** -based cash management, corporate **banking** customers will come to expect it. If your **bank** 's not offering it, they'll find [a **bank**] that is," Medeiros noted.

Indeed, Chase Manhattan **Bank** of New York, **Bank** of Boston and Chemical **Banking** Corp.'s New York-based Geoserve division came to market in recent weeks offering check **images** on CD-ROM (CORP, Dec. 27, p. 7).

Chemical also announced plans last year to integrate **imaging** into all phases of its check operations, including proof-of-deposit and archiving.

The technology allows firms to use search and retrieval software to pull up a **check image** on a **personal** computer screen, as opposed to finding the **image** on microfilm or pulling a **paper** check out of a storage box, the **banks** say.

"Many [**banks**] anticipate that they will be able to resolve telephone inquiries while the **payee** or customer is still on the phone," added Mary Ann Hardy, an **image** product manager at **Bank** of Boston.

Similarly, many **banks** began offering **image** -enabled wholesale lockbox processing last year, including Harris **Bank** , based in Chicago (CORP, Dec. 27, p. 7).

The **bank** says the technology will streamline its operations and provide customers with reduced storage needs and immediate access to check and remittance **images** for faster accounts receivable-posting and reconciliation.

Using the lessons of history, here's a...

...to the decisions you'll be making this year:

* Best Marriage of Technologies: Interbank check **imaging**. By combining check **imaging** and **electronic** check **presentment** (ECP), the Financial Services Technology Consortium (FSTC) developed a **paperless** check clearing process to reduce check fraud and provide faster access to funds (CORP, Dec. 27, p. 1). **Banks** also will benefit from faster, cheaper check clearing, FSTC says.

Huntington Bancshares of Columbus, Ohio, **Bank** of Boston, Citibank of New York and Chemical, exchanged **digitized** check **images** across dissimilar systems as part of a pilot sponsored by FSTC. "The ultimate aim of interbank check **imaging** is check truncation," notes one FSTC member.

The next steps for interbank check **imaging** involve adding security features, anticipated industry standards, and remote storage capabilities.

* Biggest Development in **Electronic** Commerce: The multiple new products promising hardware-based encryption and back-end support for Internet...the Templar Certification Program, introduced last year by Premenos Technology Corp. of Concord, Calif., allows **electronic** data interchange (EDI) vendors to incorporate Templar with their translation software to offer secure Internet EDI. Similarly, the Internet Services Roadmap from **Digital** Equipment Corp., based in Maynard, Mass., offers a set of secure Internet services for users...

...for sensitive data transmission over the Internet include RSA Data Security and Netscape Communications Corp., **both** of Redwood City, Calif., and Atalla Corp. in San Jose, Calif. (CORP, Nov. 29, p...

...financial EDI packages on the market.

* Most Surprising Trend of 1995: Only a handful of **banks** rushed to take advantage of newly loosened interstate **banking** rules. Since October, **bank** holding companies have been allowed to unify multistate operations on a single platform. But "I don't see [many] **banks** doing it," notes Connie Beck, executive vice president with NationsBank, headquartered in Charlotte, N.C...

...see it as one of our key competitive advantages for [the next three years]."

Indeed, **banks** have claimed for years that putting their corporate products on a single platform would allow...

...Cynthia Glassman, managing director with Furash & Co. in Washington, D.C., speculates that some large **banks** may be tied to the strategies they developed in the era of restrictive geographic boundaries -- emphasizing local service, granting local **bank** presidents autonomy to react to regional conditions, and encouraging internal competition to push down costs...

...be a viable strategy in 1996.

"Entrepreneurs like to deal with the president of the **bank**, and they're not going to do that with a big, nationwide **bank**," she said.

* Sign of Things To Come: The EBT Council held its inaugural meeting in...will take up the continuing controversy over bidding procedures used to award EBT contracts.

* Biggest **Bank** Merger of the Year: Chemical and Chase. The \$10 billion merger, due to be finalized...

...industry watchers predict.

The "new" Chase will have a strong international presence, greater role in **electronic** funds transfer and more resources to **bankroll** bold technological experiments. In the New York area alone, the **combined banks** will account for 35 percent to 40 percent of the wholesale **banking** markets, estimated one analyst who asked not to be identified (CORP, Sept. 6, p. 1).

In addition, Yun Jae Chung, a **banking** analyst with NatWest Securities Corp. in New York, says the **banks** generated about \$1.9 billion in 1994 from their transactions processing businesses alone.

* Most Daring...

...they've trailed off," notes Mike Alfonsi, who manages the treasury consulting practice at CoreStates **Bank**, based in Philadelphia. Alfonsi anticipates little growth in EDI at the current price of implementation...

...not to be named, added that EDI is taking on another form. Moving transaction data **electronically** is available through procurement cards, lockbox **imaging** and E-mail, says this consultant, who claims: "Over the short run, no one is..."

...group senior vice president for ABN-AMRO Services Company Inc., in Chicago. Takahashi believes more **banks** will develop ECP systems this year and begin to exchange items **electronically** to slash check fraud, boost productivity, develop new return item products, and take advantage of ECP-related discounts offered by some Federal Reserve **banks**.

"**Many banks** have developed ECP systems, but they haven't gone live," he noted. The problem is, most **banks** only are set up to send but not receive ECP transmissions. ABN-AMRO hopes to...

...The Tower Group, 617/235-5777; Steve Takahashi, ABN-AMRO Services Company, 312/904-7477; **Bank** of Boston, 617/434-6883.)

...

24/3,K/7 (Item 1 from file: 268)
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00321470 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Federal Reserve stirs renewed debate with aim to stay in processing business
Marlin, Steven
Bank Systems & Technology, v34, n11, p8, Nov 1997 DOCUMENT TYPE: Journal
Article LANGUAGE: English RECORD TYPE: Abstract Fulltext
WORD COUNT: 00852

(USE FORMAT 7 OR 9 FOR FULLTEXT)
... reasons offered for the Fed's decline in check volume include electronic check presentment (ECP), **check imaging**, **banking** consolidation (resulting in more "on-us" **checks**) and **electronic banking** (resulting in fewer **paper checks**). The Fed traditionally has been the service provider of last resort to **many** small rural **banks** not served by the clearinghouses, which today mainly serve **banks** in major metropolitan areas. With the advent of ECP and **imaging**, clearinghouses are now in a position to take more of that business from the Fed...

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00308434 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Fast, thrifty check clearing

Newkirk, Kristine M

Independent Banker, v47, n4, p17-20, Apr 1997 DOCUMENT TYPE: Journal
Article ARTICLE TYPE: News LANGUAGE: English RECORD TYPE: Abstract
Fulltext
WORD COUNT: 01331

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT: Escalating costs - with **virtually** no end in sight - have smaller banks feverishly looking for more effective and efficient ways to push check payments through the system. Quick and easy high-tech options, like **electronic** check presentment, are making their way to community banks, providing much needed cost relief and serving as a springboard for payment systems in a new **electronic** age. Check imaging replaces the actual checks with a **digitized** picture of the front and back of checks. The push toward **electronic** check processing is led most intently by the US government itself. The Fed, as the...

Electronic check presentment is today's answer for a new processing era

Like separating children from...

...small community banks as those with fewer than \$100 million in assets.)

Escalating costs-with **virtually** no end in sight-have smaller bankers feverishly looking for more effective and efficient ways to push check payments through the system. Quick and easy high-tech options, like **electronic** check presentment, are making their way to community banks, providing much needed cost relief and serving as a springboard for payment systems in a new **Electronic** Age.

Need for Change

While the U.S. check system seems to meet people's needs well, it is costly-an estimated two to three times more expensive than **electronic** alternatives-slow when compared to **electronic** options, prone to shipping delays in inclement weather and increasingly subject to fraud, writes Paul ...

...director at the Federal Reserve Bank of Boston, in a recent article for Bank Management. **Electronic** check presentment can minimize or eliminate these failings, as well as accelerate funds collection for...
...and their customers.

Sally Green, retail payments product manager for the Federal Reserve System, says **electronic** check presentment refers to the flow of **electronic** information from collecting banks to paying banks. Instead of rushing **paper** checks between institutions, banks **electronically** exchange information from checks' MICR lines in advance of receipt of the **paper** check. With the information in hand **electronically**, paying banks can get a head start processing check payment information and more quickly identify return items, reducing the risk of loss from unpaid items.

In addition, Green adds that **both** the paying and collecting banks can benefit from lower costs associated with reader-sorter equipment and staff handling.

And most important, **electronic** check presentment, dubbed ECP by those close to the process, automates a key back-room...

...forcing customers to give up their checks. "ECP lets banks begin to take advantage of **electronic** efficiencies now while customers warm to the idea of a checkless society sometime down the road," Green explains.

Springboard to Future

Whether the check follows the **electronic** information to the check writer's bank today or is pulled from the cycle early, some experts contend that **electronic** check presentment is the first step in a long-term migration toward a fully **electronic** payment system. One popular theory is that by adding to **electronic** check presentment, two other initiatives check truncation and **check imaging -banks** can create the infrastructure for a **paperless** check clearing system and reduce operating costs.

With truncation, the physical movement of **paper** is stopped entirely at some point in the clearing process. Checks could be truncated at...

...card slips are kept at the merchant location and the relevant transaction information is forwarded **electronically** .

Check imaging replaces the actual checks with a **digitized** picture of the front and back of checks. Check imaging can be used to provide customers with check copies on an as-needed basis or in their **bank** statements. **Check imaging** addresses customer concerns about relinquishing the **paper** check.

A number of community bankers caution about making significant investments in in-house check...

...as check imaging could be an interim step until the industry moves to a totally **electronic** check clearing process. In-house check imaging solutions require expensive imaging capture equipment. There are...
...equipment. A reader and printer are still needed, however.

The Push Is On

Resistance to **electronic** payments has come not only from consumers and corporations, but from bankers themselves - at least until recently. A series of promising developments are connecting community banks into **electronic** banking.

The push toward **electronic** check processing is led most intently by the U.S. government itself. To bring down...

...850 million annual payments to individuals, the Treasury Department intends to eliminate most of the **paper** checks it writes by January 1999. Already almost half of the government's payments are made **electronically** at a cost of about 2 cents a transfer, compared with about 42 cents for payments made with **paper** checks.

In the private sector, the **Electronic** Check Clearing House Organization, or ECCCHO, a nationwide consortium of mostly larger banks, exchanges **electronic** payment information hours in advance of checks to allow earlier account updating and identification of potential return items. The New York Clearing House is also phasing in **electronic** exchange of check payments among its members.

The Fed, as the largest single processor of seeing an automated check clearing system. It already offers a variety of **electronic** check services to encourage banks to try **electronic** alternatives. Options include receiving **electronic** check information in advance or in exchange of actual checks.

(Graph Omitted)

Captioned as: Federal Reserve **Electronic** Check Presentment Growth

One service available on selected deposit products across the Fed system is the **Electronic** Cash Letter Deposit Service. This service allows banks to deposit checks with the Fed and then transmit **electronic** information about those checks **before delivering** them. Where the service is offered, Fed deposit fees are significantly reduced, anywhere from 5 percent to 25 percent off the **paperbased** equivalent charge.

By adopting one or all of the Fed's **electronic** check presentment services, Green points out that paying banks can provide more timely cash management...

...information about a deposited check is received by the paying bank more quickly than with **paper** -based delivery.

Contact your district Fed for availability of these and other cost-saving **electronic** alternatives.

Independently, the Minneapolis Fed spearheads a little-known test project in the Midwest that has community banks, some with as little as \$50 million in assets, sending and receiving **electronic** check presentment files in a controlled environment.

Considered an overwhelming success by the Fed and...

...invited to join the group.

(Chart Omitted)

Captioned as: Bank A

Despite a number of **electronic** alternatives - including credit and debit cards - some of the latest projections say banks are at...

...from seeing any meaningful reduction in check volume. Consequently,

Green urges community bankers to use **electronic** check presentment to reduce their check handling costs now. A quicker, less costly and less...

...Footnote:

Editor's Note: This is the first feature of a two-part series on **electronic** check presentment. Next month's feature in Independent Banker tells how community banks can and have adopted **electronic** check processing.

...DESCRIPTORS: **Electronic** check presentment

24/3,K/9 (Item 3 from file: 268)

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00290428 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Fast forward to the future

Newkirk, Kristine M; Boucher, Wayne I

Independent Banker, v46, n7, p31-39, Jul 1996 DOCUMENT TYPE: Journal

Article ARTICLE TYPE: News LANGUAGE: English RECORD TYPE: Abstract

Fulltext

WORD COUNT: 03276

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... will think it pointless to go elsewhere for their banking needs.

The ways in which **First** Community **delivers** the personal touch today has been molded by decades of consolidation, technological advancements, reducing geographical...

...for Lisa to review at her leisure.

Before leaving the bakery, Joe sets up an **electronic** link between Lisa's Baked Breads and the equipment vendor to ease Lisa's purchase...

...that the funding source chosen earlier is the way to proceed, Lisa calls up her **electronic** signature, held on file at the bank since her business accounts were opened, and drags...

...only part of our business."

Many of the customer options at First Community center on **electronic** commerce and **electronic** cash, areas in which all banks now depend heavily on technology. However, since all banks...comprehensive.

These funds, coupled with unemployment insurance, carried him through the difficult months that followed. **Both** income sources deposited payments directly into his account at the bank. He accessed those funds...

...opportunities after a few sessions at the bank. He drafted a resume and submitted copies **electronically**, and, as it happened, ended up with a job just 20 miles from home. And...

...OR BEYOND

Remote banking through ATMs and banking kiosks-small pavilions that provide access to **electronic** -banking services that are located in retail stores, bus stations and airports and on the...

...replacing branch banking.

In addition to transfers and withdrawals, customers can apply for loans, update **bank** records, **check** credit history, make balance inquiries and obtain new product information at ATMs and kiosks. For...
...cash checks down to the penny or transfer funds to a smart card simply by **scanning** a check over an **image** reader at an ATM or kiosk. The smart card is fast becoming the universal debitcredit...

...advantage because it makes "house calls." All of its loan officers carry laptops to bring **electronic** loan applications to borrowers at home, at work or anywhere.

Loan officers can gain approval...He had accepted point-of-sale, direct deposit of his Social Security payments and other **electronic** services, but had consistently rejected ATMs, kiosks and the like.

The advent of full-service...

...program.

Although annuities and Social Security payments are direct-deposited, investment income still arrives by **paper** check. But, Tom is among the first to test a new, lowcost device for check...

...a dividend check, he scans the check with a pen-like device that converts the **paper** document-both front and back-into an **electronic** image on Tom's computer screen. Bank network software verifies the amounts, payee and payor...

...eligible (one federal, two state, one municipal), each of different but fixed duration, were administered **electronically** from application to payment through the neighborhood bank.

Since the advent of national **Electronic** Benefits Transfer, called EBT, in 2001, two years later than originally planned, only a single...

...smart card itself became her introduction to banks and banking, ATMs and point of sale **electronic** payments.

As she became comfortable with this new way of doing things and used the...cashing services-to say nothing of the impersonal welfare bureaucracy-but also entered immediately into **electronic** banking and gradually became a source of profit for the bank.

A key to First...

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00287417 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Road to fewer checks is littered with paper

Murphy, Patricia A

Bank Technology News, v9, n5, p25,29, May 1996 DOCUMENT TYPE: Journal
Article ARTICLE TYPE: News LANGUAGE: English RECORD TYPE: Abstract
Fulltext

WORD COUNT: 01467

ABSTRACT: Faced with an array of new alliances promoting forays into the world of electronic commerce, **many bankers** and others with deep roots in the checking business are finding it difficult to choose, and often expensive to identify, the best means of supporting the transition from a **paper** -based payments system to one supported by **electronics** . The Financial Services Technology Consortium has workgroups focused on the promotion of Internet checks and **image** check interchange. The National Automated Clearing House Association (NACHA) has created a task force to help **banks** identify risks and opportunities in supporting Internet payments. NACHA has also formed an **Electronic** Check Council, which is angling to promote check truncations. The **Electronic** Check Clearing House Organization and the Payment Solutions Network are each focused on promoting **electronic** check **presentment** .

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00282120 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Using technology to create advantage

Anonymous

Bank Management, v72, n1, p57-64, Jan/Feb 1996 DOCUMENT TYPE: Journal
Article LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 03174

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... core of business functionality, and are empowered make decisions to move the process along.

Testing: **Combine** a risk-based approach... integrated testing... and sound exit criteria. Adopt a risk-based approach...

...integration and the business unit tests user acceptance, to integrated testing, where one team tests **both** (for example, system integration testing and user acceptance testing). Also, establish - and adhere to sound ...whether capital or development - will have an offsetting expense. This gives the ability to identify **both** savings and increased revenues. We're not all accustomed to putting **both** ends of the equation into the planning cycle, but it's crucial for determining why...

...that was spread throughout the reengineering effort and contributed to those expense synergies was image, **both** transactional and file folder.

Another clear internal motivator is the ability to improve quality by ...

...customers... deliver that information to its customers in an integrated and timely fashion... and tailor **both** the information and the delivery to the customer with a tremendous amount of customer focus. Let's look at two examples.

Paper -based **check** environment. **Banking** has pretty much wrung out all of the efficiencies possible in this area. Yet, even though **image** proof holds the potential to dramatically change the expense curve in check processing, simply implementing...

...This is particularly true as our industry begins to migrate to some of the more **electronic** payment alternatives where we need to stay price-competitive.

Lockbox. Particularly from a character-recognition...

...s up-front investment costs over a reasonable period of time. And, although checks and **paper** should be around a long time, the growth of **electronic** alternative payment mechanisms may cause reductions in **paper** transactions significant enough to adversely affect investment risks.

Banks can consider three image ...decision and your investment simply keep you in the game.

The only way to strengthen **both** your customer relationships and your position in the marketplace is to enhance the information you...

...to your customer. Though extremely important, image capabilities are merely a building block for overall **delivery** capability.

FIRST UNION NATIONAL BANK: AUSTIN ADAMS, EXECUTIVE VICE PRESIDENT

First Union's technology beliefs are simple...

...each unit's business and offer solutions to help them succeed. Our belief is that **both** corporate and business-unit interests are best served with an enterprise approach to the solutions...

24/3,K/12 (Item 6 from file: 268)

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00271437 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Wrestling with ACH risk

Cantrell, Wanda

US Banker, v105, n9, pSR1-SR4, Sep 1995 DOCUMENT TYPE: Journal Article

LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 03192

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... ACH is just one of those key delivery systems. The universality of the ACH system, **both** in terms of usage and the participants, as well as the fact that you can...

...general credit transfer systems. The difference is that, even though it overlaps to some extent **both** systems, the extent of the risk controls that are present in the ACH is significantly...

...have to find a way to replace the revenue and profit that we lose by **converting** the **check** to ACH. We **banks** handle **paper** very, very

efficiently. One of the challenges we have is to replace that revenue and ...
...margins. It's just a matter of time. As we dump more transactions into the **electronic** world, we can drive our unit costs down. Hopefully at some point, the **electronic** margins are going to be better than **paper** -based margins.

Mr. Kessler: There's no question that the ACH is an extremely important...think we have done a lot to control the fraud in ACH. That doesn't **bother** me. It's over capacity -- there's too many of us banks around and we...

...been interest for quite some time in cross-border payments. There have been various initiatives, **both** between correspondent banks and also the one that's been led by NACHA, which is...

...wants to effect payment in a low-cost fashion, and they want somebody else to **bother** with the routing and formatting.

Ms. Friedman: They want choices; they want convenience; they want...

...information that goes along with that payment and a timeliness of that information. We started **delivering** ACH information **before** it's even posted to the client's DDA account. The clients love it, and...to our customers? NACHA did a study that showed 80% of the customers would like **both** data and payment to go together. We need to provide that type of service, and...

...more cost effective to develop a customized niche service for a corporation if it's **electronic** -based rather than **paper** -based.

USB: What technologies are on the horizon that will affect your businesses?

Ms. Friedman...

...side. For example, Citibank recently announced in this marketplace that it would drop charges for **electronic** transactions. The idea is to get the customer to have an economic incentive to change...

...become a more difficult competitor when they consolidate their processing, as they currently are doing, **both** for the ACH as well as for the wire, simply because they're going to...

...that we're going to exchange amongst each other, that would be great. We bypass **both** the Fed and the private-sector processor.

Mr. Smith: I think there is a technology...

24/3,K/13 (Item 7 from file: 268)
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00265918 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Technology and innovation in retail banking distribution
Devlin, James F
International Journal of Bank Marketing, v13, n4, p19-25, 1995
DOCUMENT TYPE: Journal Article LANGUAGE: English RECORD TYPE: Abstract
Fulltext
WORD COUNT: 05933

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...ABSTRACT: distribution of retail banking services is discussed. The emergence of home and telephone retail banking **delivery** systems are highlighted. **First** Direct, a subsidiary of Midland Bank, has successfully introduced a telephone banking service. This introduction...
... branch based distribution or delivery mechanisms has been precipitated by a number of factors, on **both** the supply and demand sides, and these will be investigated in the first section of...

...of delivery systems for financial services institutions is determined by

a number of factors on **both** the supply and demand sides of the market. On the supply side, factors such as...

...functional demarcation was predominant with many regulatory restrictions imposed, one main consequence being limited competition **both** domestically and internationally. As a result there was heavy reliance on traditional branch-based delivery...s objectives included a reference to promoting efficiency and competitiveness in the financial services industry **both** domestically and internationally (Rider et al, 1989). The aim of fostering competitiveness was central to...

...employed by particular firms. Most directly, developments in technology have resulted in a proliferation of **electronic** cash dispenser networks and, more recently, systems providing home and telephone banking systems. More generally...branches and are now the responsibility of centralized processing units, e.g. securities and deed **business** and **cheque** processing. Obviously, a prime motivation for this development is the reduction of costs by taking...

...total space available in branches needs to be given to staff and can therefore be **converted** into "customer space". Some of the staff rendered redundant by the changes may also be...withdraw funds using the branch "counter", an ATM, at the supermarket and in some cases **electronically**. One of the most obvious manifestations of this has been the large increase in the...

...card to replace chequebook payments then a further logical step would appear to be the **electronic** instantaneous transfer of funds between accounts at the moment the transaction occurs or EFTPoS. However...

...card, known as Mondex, which can be "loaded up" with funds which are then deducted **electronically** and instantly at the point of sale. It remains to be seen whether the mass...large option of menus. This obviously provides opportunities for marketing purposes as well as enabling **electronic** cashless bill payment and the possibility of "transfer of funds" to smart cards such as...

...Looking further into the future there has been much written recently about the emergence of **cyber** businesses and **virtual** organizations. It is argued that many organizations of the future will exist only within **cyberspace**, the medium in which computers operate and information flows. Such **cyber** businesses will employ smart software agents, intelligent computer programs to organize financial transactions with banks...

...represented a greenfield development and as Midland chose to start with a "clean sheet of **paper**" it was able to put in place the structure, systems and skills which it believed...for organizations to maintain a competitive advantage through product differentiation. With the emergence of more **heterogeneous** consumer preferences regarding delivery of retail banking services, then the issue of distribution of the...

...financial services. The public has up to now been reluctant to adopt the more innovative **delivery** mechanisms offered. **First** Direct appears to have been successful as it required that the public need do no...

24/3,K/14 (Item 8 from file: 268)
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00264434 (USE FORMAT 7 OR 9 FOR FULLTEXT)

An emerging technology to watch

Abugattas, Alonso

Texas Banking, v84, n4, p1,5+, Apr 1995 DOCUMENT TYPE: Journal Article

LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 01772

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... replace presentment of physical checks as electronic check clearing and image-to-image communication among **banks** become more common.

Many legal, technical and financial barriers have yet to be crossed, but the potential gains appear...

24/3,K/15 (Item 9 from file: 268)

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00263967 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Ideas for developing a blueprint for managing bank costs

Page, Robert

TMA Journal, v15, n3, p47-50, May/Jun 1995 DOCUMENT TYPE: Journal Article

LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 01877

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... stated, automated services are typically priced lower than their manual alternatives. Can certain services be **combined** , yet still meet the company's internal operating or accounting requirements?

Once it has been...

...may not be needed at all. The following ideas could provide immediate cost savings:

1. **Converting** disbursements from **paper** to **electronic** credits through the automated clearing house (ACH) can lower per item charges and overall operating costs substantially. **Bank** charges for **check** disbursements, including account reconciliation costs, the cost of **paper** stock, postage and stop payments, can result in the costs of **paper** processing exceeding \$1 per transaction. Based on the type of **electronic** credits used, an ACH item can cost, on average, about 25 to 50 cents. More complex **electronic** payments (corporate-to-corporate) will have higher transaction costs, but offer the potential of even...

...costly than telephone or fax reporting methods.

7. If possible, using credit card or "cash **before delivery** " options instead of standard open accounts receivable can also help. In addition to a possible non-sufficient fund (NSF) expenses would be greatly reduced.

8. Pre-authorized **electronic** debits are an inexpensive alternative to other means of collections. In addition to lower transaction...

...items processed. Areas to consider include:

1. If a company has a large number of **paper** deposits, or if the volume of checks it disburses is high, inquiring about a discount...

24/3,K/16 (Item 10 from file: 268)

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00252730 (USE FORMAT 7 OR 9 FOR FULLTEXT)

The 822, a progress report

Weiland, Stephen

TMA Journal, v14, n6, p32-36, Nov/Dec 1994 DOCUMENT TYPE: Journal Article

LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 02239

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...ABSTRACT: 822, as defined within the American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 **electronic** data interchange (EDI) environment. The 822 is the **electronic** delivery of analysis statements. It is nothing more than an alternative, and an **electronic** , delivery mechanism for those **bothersome** and often cumbersome **paper** analysis statements that pile up on the cash manager's desk every month. However, this...

...acceptance, but now is not the time to get discouraged, with the full benefits of **electronic** account analysis within reach.

TEXT:

...set of approximately 1,500 codes in November 1993 brought with it a confirmation that **electronic** delivery of account analysis statements--the "822"--is here to stay. Although it has been...

...point to smoother sailing ahead. According to our estimates, more than 60 banks are transmitting **electronically** to hundreds of companies on a nationwide basis. Is your company or bank one of...

... as defined within the ANSI (American National Standards Institute) ASC (Accredited Standards Committee) X12 EDI (**electronic** data interchange) environment. Simply stated, it is the **electronic** delivery of analysis statements. The 822 is nothing more than an alternative, and an **electronic** , delivery mechanism for those **bothersome** and often cumbersome **paper** analysis statements that pile up on the cash manager's desk every month. But this...

...with it many labor-saving benefits and some marvelous opportunities.

Background

The idea for an **electronic** account analysis format began to germinate in 1987. In November of that year, the TMA...

...valiant attempt by over 1,500 treasury professionals to define a common format for the **paper** analysis statement and a common set of product and service identification codes. The TMA hoped that the banks would follow this standard in the production of their **paper** analysis statements and, in the process, eliminate the confusion arising from the different formats, calculations, and service coding schemes then in use. This "**paper** standard" met with less than universal acceptance by the banks.

From 1987 to 1991, emphasis shifted from the promotion of a common **paper** statement format to the development of an **electronic** format. Banks were not enthusiastic about embracing the **paper** standard for a variety of reasons, one of which was that the TMA product and...

...code list was too small. On the other hand, large corporations were agitating for an **electronic** statement transmission standard which, in view of the prevailing banking posture, would not be tied to the TMA **paper** standard rules. A broad and diverse group of people, collectively known as the "ASC, X12F...

...result of the group's effort in this period was twofold. First, ANSI accepted this **electronic** format as a national standard and identified it. within the X12 EDI framework, as transaction...

...national standard--a common set of rules--approved and maintained by ANSI, to be used **both** by those who prepare **electronic** analysis statements (banks) and by those who would receive and use these statements (the bank...

...receive statements from 10, 20, 30 or perhaps hundreds of banks. Every month, you receive **paper** analysis statements for the various deposit accounts you maintain at these banks. The sheer weight of the **paper** that piles up on your desk becomes an obstacle in itself. The information and possible...

...to scan and record this information.

Features of the 822

Now enter the 822. The **paper** is replaced by **electronic images** on your PC or mainframe computer. Conceptually every balance, rate, volume, price, or charge in every statement is now available for **electronic** review for as many months back as you choose--and no one had to key any of this information into your computer. Now the **electronic** eyeballs can **scan** this information for errors and deviations. All bank calculations can be cross checked. Expected balances, prices and volumes can be **checked** . **Bank** charges can be allocated. "What ifs" and bank, division, and regional

comparisons can be performed...

...True, all of the good things mentioned here can be accomplished with a pencil and **paper**, calculator and spreadsheet based on figures within the **paper** statements. But before you embark on such an adventure, you had better line up the people who will scrutinize the **paper** statements every month and key in all the raw information--accurately. Now the principal enabling...use it. The bank, in turn, must first develop the software required to assemble and **transmit** the 822 statement **before** it can be offered as a service to its customers. Software development takes time. And ...

...more general rules surrounding the X12 framework. The X12 rules define, among other things, the **electronic** "outer envelope" in which the 822 is delivered. If the envelope is bad, the letter...

...acceptance, but now is not the time to get discouraged, with the full benefits of **electronic** account analysis within our reach. What most certainly will help in this process is a...about telecommunications. Given this knowledge, the customer will, from day one, receive a readable, accurate, **electronic** account analysis statement,

The 822 is here to stay, and the future looks good.

Stephen...

...DESCRIPTORS: **Electronic** data interchange

24/3,K/17 (Item 11 from file: 268)

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00245127 (USE FORMAT 7 OR 9 FOR FULLTEXT)

1994 survey results: Cash management industry trends

Forman, Larry; Shafer, David L

TMA Journal, v14, n5, p60-66, Sep/Oct 1994 DOCUMENT TYPE: Journal Article

LANGUAGE: English RECORD TYPE: Abstract Fulltext

WORD COUNT: 02583

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...writing this article is to provide up-to-date information on the issues that affect **both** service providers and their customers. Some of the powerful forces that create constant evolution are...

... initiatives affect banking--same-day settlement and pricing of daylight overdrafts. On the technology front, **imaging** systems are beginning to be a real presence in the lockbox and **check** clearing **business**. Internal developments by the banks include: more proprietary mutual funds (affecting sweep account options), larger...

...respondents were more likely to receive same-day cash letters, (53 percent did in the **first** month), than to **send** them. Only 39 percent sent SDS cash letters in January. The larger banks in peer...only 16 percent of respondents.

Image Processing

Imaging technology has a vast potential in the **paper**-intensive financial services industry. A very abbreviated list of potential benefits includes improved customer service...

...images (than microfilm/microfiche), and cost savings (especially with the potential of character recognition, which "**digitalizes**" an image. We included specific questions on imaging technology in three different product areas: account...

...the check clearing section, 13 percent of responding banks are currently running image statements on **paper** for at least some customers (this includes "tests"). Instead of mailing back canceled checks, check images are **printed** and sent. This saves on postage, and checks can be sorted **electronically**. Another 40 percent of respondents are planning to do this.

Thirteen percent are currently having...

...advantage here is increased productivity, since the operator does not have to handle the actual **paper** . Only 9 percent of respondents (7 banks) are running image character recognition programs, which decipher...

...funds. About one in five (22 percent) of those offering mutual funds for sweeps, have **both** third-party and proprietary funds. This is up from only 8 percent in 1993. However...

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0163715

Comment: Finding Savings, Benefits on Road to Paperless Banking
American Banker - November 8, 1995; Pg. 17; Vol. 160, No. 216
WORD COUNT: 922

BYLINE:
By GEOFF EMERSON

TEXT:
...Two technologies that have attempted to accomplish this independently are electronic check presentment (ECP) and **check imaging** .
While **many banks** are running ECP pilots, the technology still accounts for less than 5% of all transactions...

24/3,K/19 (Item 2 from file: 625)
DIALOG(R)File 625:American Banker Publications
(c) 2001 American Banker. All rts. reserv.

0161630

*** Comment: Check Processing Offers Big Opportunity for Cost Savings**
American Banker - August 31, 1995; Pg. 12; Vol. 160, No. 168
WORD COUNT: 1,310

BYLINE:
By JOHN H. TAYLOR

TEXT:
...traditional technology have already been realized. There are physical limits to the speed with which **paper** can be processed and moved. Finally, large financial institutions face an imminent retooling of item...
...to grow, and processing will continue to be an increasing operational burden for banks. Though **electronic** transaction volume has grown rapidly during recent years, it represents only a fraction of total...
...checks, but the expense of incorporating sufficient technologies and resources also cemented banks' dependence on **paper** . As a result, banks have had little incentive to discourage the use of **paper** checks.
From bank to bank, the basic operations processes do not vary substantially. The heavy...
...and payment processing as it is known today.
Examples of these are same-day presentment, **electronic** check presentment, point of sale, bill paying through home banking, and interstate banking.
Technology within...

...of
locating errors, system balance, customer service, and overall efficiency,

these technologies are dramatically changing **check** processing operations.

If **banks** are to reduce the cost of check processing, they must have systems that permit greater...

...Most senior operations officers and consultants believe that it is only a matter of time **before** **imaging** begins to **deliver** processing improvements comparable only to those created when magnetic ink encoding was introduced in the...

...a lack of objectivity. Those who manage the effort have a vested interest.

These factors **combine** to create a business that can well be served by the "utility" environment of a...

24/3,K/20 (Item 3 from file: 625)

DIALOG(R)File 625:American Banker Publications
(c) 2001 American Banker. All rts. reserv.

0150724

Ohio's First-Knox Sees Imaging as PR Tool

American Banker - September 26, 1994; Pg. 4A; Vol. 159, No. 185

WORD COUNT: 1,045

BYLINE:

By MICHAEL O'D. MOORE

TEXT:

...in March 1993. The Rocky Mount, N.C., bank, which alerted customers to the change **before** **sending** out **image** statements, was pleased by the high acceptance rate.

There are two schools of thought in...

24/3,K/21 (Item 4 from file: 625)

DIALOG(R)File 625:American Banker Publications
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0135181

*** Check-Processing Poll Finds Slower Advances**

American Banker - June 2, 1993; Pg. 3; Vol. 158, No. 104

WORD COUNT: 695

BYLINE:

By MATT BARTHEL

TEXT:

...processing.

But many bankers and consultants believe that it is only a matter of time **before** **imaging** begins to **deliver** processing improvements comparable only to those created when magnetic ink encoding was first introduced in...

24/3,K/22 (Item 5 from file: 625)

DIALOG(R)File 625:American Banker Publications
(c) 2001 American Banker. All rts. reserv.

0132480

*** Fed Improving Services With Image Technology**

American Banker - February 16, 1993; Pg. 3; Vol. 158, No. 30

WORD COUNT: 531

BYLINE:

By JEANNE IIDA

TEXT:

...won approval last week from its pricing policy committee for the image-based enhancements to **check** services for commercial **banks** .

The Fed banks must **submit** individual proposals **before** offering the services.

Several banks may offer them by yearend, said Joanna Frodin, national check...

24/3,K/23 (Item 6 from file: 625)

DIALOG(R)File 625:American Banker Publications

(c) 2001 American Banker. All rts. reserv.

0107681

*** Bankers Say IBM Ready to Test Imaging System**

American Banker - March 9, 1990; Pg. 1; Vol. 155, No. 47

WORD COUNT: 726

BYLINE:

By RICHARD LAYNE

TEXT:

...Banks can send them

the image of their checks in a monthly statement, instead of **sending** the **checks** . **First** Interstate **Bank** of Washington already does this, using a

proprietary system to lift the image of the...

24/3,K/24 (Item 7 from file: 625)

DIALOG(R)File 625:American Banker Publications

(c) 2001 American Banker. All rts. reserv.

0061810

Bank Can Pay Check Without the Payee's Endorsement

American Banker - May 29, 1987; Pg. 4; Vol. 152, No. 104

WORD COUNT: 312

BYLINE:

By CHARLES G. DALEY

TEXT:

...payable to the order of Scannell Electrical Co. for work performed for Ohio Bell. Scannell **delivered** the **check** to **First** National

Bank of Toledo, which credited the amount to **Scannell** 's account. Eventually, BancOhio debited the amount to Ohio Bell.

Subsequently, Ohio Bell discovered that

Set	Items	Description
S1	0	AU=(GEER T? OR GEER, T?)
S2	62108	(BANK? OR PERSONAL? OR BUSINESS?) (3N) (CHECK? OR CHEQUE? OR DRAW? OR WITHDRAWAL? OR DRAFT? OR DRAUGHT?) OR FINANCIAL() INSTRUMENT?
S3	1416	S2 (S) (CONVERT? OR SCAN? OR DIP OR IMAGE? OR IMAGING OR DIGITIZE? OR TRANSLATE? OR CONVERSION)
S4	71823	(PRIOR? OR BEFORE? OR FIRST? OR ANTE) (3N) (SUBMIT? OR SUBMISSION? OR TRANSMISSION? OR TRANSMIT? OR SEND? OR DELIVER?)
S5	2169625	(BANK? OR INSTITUTION? OR SAVINGS(N) LOAN OR CREDIT() UNION?)
S6	150673	(PAPER? OR HARDCOP? OR HARD() (COPY OR COPIES) OR PRINTED) - AND (ELECTRONIC? OR DIGITAL? OR VIRTUAL? OR CYBER? OR DIGITIZED)
S7	60219	S6 AND (COMMINGL? OR INTERMINGLED OR COMBINE? OR BOTH? OR MIXED OR INTERMIXED OR HETEROGEN?)
S8	2053489	SETTLEMENT? OR PRESENT? OR PAYOR? OR PAYEE?
S9	95332	(MULTIPL? OR SEVERAL? OR PLURAL? OR MANY OR ADDITIONAL? OR SECOND OR 2ND) (4N) S5
S10	0	S3 (10N) S4
S11	17	S3 (10N) S7
S12	160	S2 (10N) S7
S13	23	S3 (10N) S9
S14	38	S3 (10N) S6
S15	460	S5 (S) S7 (S) (S8 OR S9)
S16	8	S2(S) S15
S17	0	S11 AND S4
S18	4	S12 AND S4
S19	50	(S13 OR S14) (S) (S4 OR S5)
S20	60	(S16 OR S18 OR S19)
S21	56	RD (unique items)
S22	37	S21 NOT PY>1998
S23	34	S22 NOT PD>980510

File 146: Washington Post Online 1983-2001/Jul 26
(c) 2001 Washington Post

File 387: The Denver Post 1994-2001/Jul 25
(c) 2001 Denver Post

File 471: New York Times Fulltext-90 Day 2001/Jul 27
(c) 2001 The New York Times

File 492: Arizona Repub/Phoenix Gaz 1986-2001/Jul 22
(c) 2001 Phoenix Newspapers

File 494: St Louis Post-Dispatch 1988-2001/Jul 23
(c) 2001 St Louis Post-Dispatch

File 499: Detroit Free Press 1987-2001/Jul 20
(c) 2001 Detroit Free Press Inc.

File 630: Los Angeles Times 1993-2001/Jul 23
(c) 2001 Los Angeles Times

File 631: Boston Globe 1980-2001/Jul 24
(c) 2001 Boston Globe

File 632: Chicago Tribune 1985-2001/Jul 25
(c) 2001 Chicago Tribune

File 633: Phil. Inquirer 1983-2001/Jul 22
(c) 2001 Philadelphia Newspapers Inc

File 638: Newsday/New York Newsday 1987-2001/Jul 24
(c) 2001 Newsday Inc.

File 640: San Francisco Chronicle 1988-2001/Jul 25
(c) 2001 Chronicle Publ. Co.

File 641: Rocky Mountain News Jun 1989-2001/Jul 21
(c) 2001 Scripps Howard News

File 702: Miami Herald 1983-2001/Jul 24
(c) 2001 The Miami Herald Publishing Co.

File 703: USA Today 1989-2001/Jul 25
(c) 2001 USA Today

File 704: (Portland) The Oregonian 1989-2001/Jul 20
(c) 2001 The Oregonian

File 713: Atlanta J/Const. 1989-2001/Jul 22
(c) 2001 Atlanta Newspapers

File 714: (Baltimore) The Sun 1990-2001/Jul 20
(c) 2001 Baltimore Sun

File 715:Christian Sci.Mon. 1989-2001/Jul 26
 (c) 2001 Christian Science Monitor
File 725:(Cleveland)Plain Dealer Aug 1991-2000/Dec 13
 (c) 2000 The Plain Dealer
File 735:St. Petersburg Times 1989- 2000/Nov 01
 (c) 2000 St. Petersburg Times
File 477:Irish Times 1999-2001/Jul 25
 (c) 2001 Irish Times
File 710:Times/Sun.Times(London) Jun 1988-2001/Jul 25
 (c) 2001 Times Newspapers
File 711:Independent(London) Sep 1988-2001/Jul 25
 (c) 2001 Newspaper Publ. PLC
File 756:Daily/Sunday Telegraph 2000-2001/Jul 23
 (c) 2001 Telegraph Group
File 757:Mirror Publications/Independent Newspapers 2000-2001/Jul 26
 (c) 2001

23/3,K/1 (Item 1 from file: 146)
DIALOG(R)File 146:Washington Post Online
(c) 2001 Washington Post. All rts. reserv.

4052585

Who Was That Masked Cybershopper? MasterCard-Visa Agreement on Credit Card Security May Make On-Line Commerce Fly

The Washington Post, February 02, 1996, FINAL Edition

By: Judith Evans, Washington Post Staff Writer

Section: FINANCIAL, p. F01

Line Count: 83 Word Count: 922

...CAPTIONS: software standard known as S.E.T. protects credit card transactions from unauthorized use.

1. **Before** a customer **sends** a credit card number over the Internet, the personal computer scrambles it using technology known...

... number is intended to be unintelligible to other Internet users -- even the merchant making the **electronic** sale.

2. A special code lets the merchant **check** with the **bank** that issued the credit card, to confirm the validity of the number and the name...

23/3,K/2 (Item 2 from file: 146)
DIALOG(R)File 146:Washington Post Online
(c) 2001 Washington Post. All rts. reserv.

2222852

Paper Trail May Tip Scale In Case Against Lobbyist Bereano's Clients Testify in Mail Fraud Trial

The Washington Post, November 22, 1994, FINAL Edition

By: Karl Vick, Washington Post Staff Writer

Section: METRO, p. e01

Line Count: 79 Word Count: 877

... District Courtroom 3C and heft into their chairs the big, black vinyl binders that contain **virtually** the entire government case against Bereano. Inside are more than 200 pages of canceled **checks**, **bank** statements and billing forms that, if placed in the right order, might possibly make up for the fact that, in a week and a half of **presenting** its case, the government has not called a single friendly witness.

Today was no exception...

23/3,K/3 (Item 3 from file: 146)
DIALOG(R)File 146:Washington Post Online
(c) 2001 Washington Post. All rts. reserv.

2101079

THE 1992 ELECTIONS: STATE BY STATE THE MIDWEST

The Washington Post, November 05, 1992, FINAL Edition

Section: A SECTION, p. a39

Line Count: 151 Word Count: 1665

... Reps. David R. Nagle (D) and Jim Nussle (R) who gained notoriety by putting a **paper** bag over his head in embarrassment over the House **Bank scandal**. Nussle eked out a narrow 51 to 49 percent victory. Rep. Jim Ross Lightfoot (R), who had bounced 105 checks at the House **Bank**, nevertheless held off a strong challenge from Iowa Secretary of State Elaine Baxter (D) by...

23/3,K/4 (Item 4 from file: 146)
DIALOG(R)File 146:Washington Post Online
(c) 2001 Washington Post. All rts. reserv.

2053915

Cityscape -Riggs's Savings Graces A Pair of Branches to Bank On
The Washington Post, January 18, 1992, FINAL Edition
By: Benjamin Forgey, Washington Post Staff Writer
Section: STYLE, p. g01
Line Count: 74 Word Count: 815

... and thoroughgoing consistency. Both are fine examples of a commercial classical style.

Of course, with **banks** failing left and right and with Riggs Chairman Joe Allbritton hustling for dough to make...

... on real estate loans, there's a certain irony attached to the image of the **bank** as classical strongbox. And a reality **check** of **present**-day **banking** practices, relying increasingly on **electronic** technologies, would suggest alternative, up-to-the-minute architectural strategies.

But the association of banks...

23/3,K/5 (Item 5 from file: 146)
DIALOG(R)File 146:Washington Post Online
(c) 2001 Washington Post. All rts. reserv.

324909

'Baby Bells' Seek to Shed Regulatory Chains; Goal Is to Diversify Into Multifaceted 'Information Companies'

The Washington Post, December 28, 1988, FINAL Edition
By: John Burgess, Washington Post Staff Writer
Section: A SECTION, p. a01
Line Count: 255 Word Count: 2800

...use.

The limitations on computer services are probably the most grating to the companies at **present**. It is now only about a \$5 billion-a-year business. But they see a time when almost every American home will use computers for such things as **banking**, shopping, **checking** recipes, researching **papers** and staying in touch with friends and relatives through **electronic** mail. Numbers at which callers can hear recorded information are also expected to burgeon.

So

23/3,K/6 (Item 1 from file: 492)
DIALOG(R)File 492:Arizona Repub/Phoenix Gaz
(c) 2001 Phoenix Newspapers. All rts. reserv.

06810306

QUIT FILING THAT PAPER, AND START 'IMAGING' IT FOR EASY RETRIEVAL
Arizona Business Gazette (AB) - THURSDAY, November 5, 1992
By: Judi K-Turkel and Franklyn Peterson
Edition: Weekly Section: High Technology Page: 17
Word Count: 882

TEXT:

...lot of time and money over the next decade.

You can make computerized pictures of **bank** checks, insurance claims, tax forms, real estate properties - in fact, of almost anything you have in your file cabinets. They take up much less space than **paper images** do.

23/3,K/7 (Item 1 from file: 494)
DIALOG(R)File 494:St LouisPost-Dispatch
(c) 2001 St Louis Post-Dispatch. All rts. reserv.

09240065

CHECKS AND BALANCES CAN STOP CON ARTISTS

St. Louis Post Dispatch (SL) - Thursday, August 28, 1997

By: Virginia Baldwin Hick

Of The Post-Dispatch Staff

Edition: FIVE STAR LIFT Section: BUSINESS Page: 01C

Word Count: 652

TEXT:

...how easy it is to forge a business check.

Using laser printers, computer scanners, check **paper** from stationery stores or mail-order **business checks**, con artists can make checks that look impressive enough to fool most merchants, and even many **bank** tellers.

23/3,K/8 (Item 2 from file: 494)

DIALOG(R)File 494:St LouisPost-Dispatch

(c) 2001 St Louis Post-Dispatch. All rts. reserv.

08345095

HEFTY BANK FEE LEAVES SMALL BUSINESS FEELING BURNED

St. Louis Post Dispatch (SL) - Monday, December 11, 1995

By: Courtney Price

1995, Scripps Howard News Service

Edition: FIVE STAR LIFT Section: BUSINESS PLUS Page: 03

Word Count: 567

...bank fees, goods service and aggressive lending.

Lastly, don't order blank checks from your **bank**. Buy your blank checks in quantity from a check-printing company; you will pay a lot more by ordering checks from your **bank**.

There are **several** central sources for **business checks** that can save you 50 percent or more off ordering from a **bank**, such as Checks In The Mail (800-733-4443), Current (800-533-3973), or Image...

23/3,K/9 (Item 1 from file: 498)

DIALOG(R)File 498:Detroit Free Press

(c) 2001 Detroit Free Press Inc. All rts. reserv.

07009539

RETIRED LAWMAKERS FREE TO USE \$12 MILLION

Detroit Free Press (FP) - MONDAY March 15, 1993

By: LARRY MARGASAK Associated Press

Edition: METRO EDITION Section: NWS Page: 3A

Word Count: 609

... 200 for his personal use. Defeated for re-election last year after writing 898 bad **checks** at the House **bank**, Davis did not return **several** phone calls seeking comment.

The Free Press reported last year that Davis spent about \$1...

23/3,K/10 (Item 2 from file: 498)

DIALOG(R)File 498:Detroit Free Press

(c) 2001 Detroit Free Press Inc. All rts. reserv.

07009394

MILLIONS REMAIN IN WAR CHESTS RETIRED LAWMAKERS DOLE OUT GOODIES

Detroit Free Press (FP) - MONDAY March 15, 1993

By: LARRY MARGASAK Associated Press

Edition: METRO FINAL Section: NWS Page: 3A

Word Count: 544

... 200 for his personal use. Defeated for re-election last year after writing 898 bad **checks** at the House **bank** , Davis did not return **several** phone calls seeking comment.

The Free Press reported last year that Davis spent about \$1...

23/3,K/11 (Item 3 from file: 498)
DIALOG(R)File 498:Detroit Free Press
(c) 2001 Detroit Free Press Inc. All rts.'reserv.

05538307

A CLIENT'S-EYE VIEW OF BANKS

DETROIT FREE PRESS (FP) - MONDAY October 15, 1990
By: BARRY ROHAN Free Press Business Writer
Edition: METRO FINAL Section: BIZ Page: 1F
Word Count: 1,183

...shopper-surveyors typically test the tellers with a variety of requests: for money orders, to **convert** a pile of coins to **paper** dollars, to cash a **check** **drawn** on another **bank** . Later, they may ask the desk-bound customer-service representatives about the **bank** 's checking and savings accounts.

As they move about the bank, the professional shoppers drop...

23/3,K/12 (Item 4 from file: 498)
DIALOG(R)File 498:Detroit Free Press
(c) 2001 Detroit Free Press Inc. All rts. reserv.

05041670

UNISYS TAKES A GIANT STEP TOWARD ELECTRONIC CHECK PROCESSING

DETROIT FREE PRESS (FP) - MONDAY October 23, 1989
By: CECILIA DECK Free Press Business Writer
Edition: METRO FINAL CHASER Section: BIZ Page: 3C
Word Count: 477

TEXT:

There will come a day when a **paper** **bank** **check** finds its life ended at the **bank** teller's window, where it will be scanned, imaged, and then shredded in a single...

23/3,K/13 (Item 1 from file: 630)
DIALOG(R)File 630:Los Angeles Times
(c) 2001 Los Angeles Times. All rts. reserv.

00305334 (USE FORMAT 7 FOR FULLTEXT)

Ken Jones; L.A.'s 1st Black Anchorman

MYRNA OLIVER, TIMES STAFF WRITER
Los Angeles Times , Home Edition ed, colA 1 1, p20
Tuesday May 18, 1993
DOCUMENT TYPE: Obituary
SECTION HEADING: Metro Desk
WORD COUNT: 510

... There was enough money in the KIIS Publications account to cover any one of the **checks** , enabling **bank** employees to honor each check, unaware of the **multiple** transactions. The **bank** publicly accused Jones of the illegal transactions on March 5, 1981.

"It was the same...

23/3,K/14 (Item 1 from file: 631)
DIALOG(R)File 631:Boston Globe
(c) 2001 Boston Globe. All rts. reserv.

07075092

**OUT OF OFFICE, BUT STILL IN THE MONEY RETIRED HOUSE MEMBERS SPEND LEFTOVER
CAMPAIGN FUNDS IN A VARIETY OF WAYS**

Boston Globe (BG) - MONDAY, March 15, 1993

By: Associated Press

Edition: THIRD Section: NATIONAL/FOREIGN Page: 3

Word Count: 693

... 7,200 for his personal use. Defeated for reelection last year after writing 898 bad **checks** at the House **bank**, Davis did not return **several** phone calls seeking comment.

Others say they are reserving judgment on use of their money...

23/3,K/15 (Item 2 from file: 631)

DIALOG(R)File 631:Boston Globe

(c) 2001 Boston Globe. All rts. reserv.

05853143

**A DAY ON THE FRONTLINE THROUGH THE SEASON'S UNCERTAINTY, LECHMERE MANAGER
STEPHEN PULIAFICO KEEPS A FOCUS ON CUSTOMER SATISFACTION**

BOSTON GLOBE (BG) - TUESDAY December 18, 1990

By: David Mehegan, Globe Staff

Edition: THIRD Section: BUSINESS Page: 45

Word Count: 1,513

...customers is not being able to get through checkout."

Like many retailers, Lechmere now has **electronic scanning** wands, which do away with most handkeying of prices and department numbers, eliminate most price checks and speed up **checkout**. **Bank** credit cards are approved **electronically** by a clearing center in Omaha.

Puliafico, 35, grew up in Brockton and received a...

23/3,K/16 (Item 3 from file: 631)

DIALOG(R)File 631:Boston Globe

(c) 2001 Boston Globe. All rts. reserv.

04550496

BETTER PENMANSHIP, PLEASE

BOSTON GLOBE (BG) - THURSDAY August 25, 1988

Edition: THIRD Section: BUSINESS Page: 45

Word Count: 163

TEXT:

Under new Federal Reserve rules that go into effect next Thursday, **bank** customers will have to be more scrupulous about how they endorse checks. The new regulation, which limits the amount of time a **bank** can hold deposited funds, sets aside an area on the **check** for the depository **bank**'s endorsement. The reason: **many banks** will use optical **scanning** equipment to read endorsements and, thus, help speed up check processing. The **Bank** of Boston warns customers that if their signature, for instance, obliterates the **bank**'s endorsement, they could be liable for losses that occur from returned checks. The **Bank** of Boston is printing special checks that outline an area for the customer's signature...

23/3,K/17 (Item 1 from file: 632)

DIALOG(R)File 632:Chicago Tribune

(c) 2001 Chicago Tribune. All rts. reserv.

08850262

PLASTIC TO REPLACE PAPER IN STATE'S WELFARE SYSTEM

Chicago Tribune (CT) - SUNDAY, December 15, 1996

By: John Schmeltzer, Tribune Staff Writer.
Edition: CHICAGOLAND FINAL Section: BUSINESS Page: 8
Word Count: 450

...60615, 606166, 60653 and 60651.

Called the Illinois Link, the card will connect recipients to **electronic** accounts where their cash and food stamp benefits will be stored. It will operate in the same manner as automated teller machine cards issued by **many banks** to their **checking** account customers.

And like many ATM cards, the Illinois Link card can be used in...

23/3,K/18 (Item 2 from file: 632)
DIALOG(R)File 632:Chicago Tribune
(c) 2001 Chicago Tribune. All rts. reserv.

02001797

The write stuff: High-tech tools track forgers
Chicago Tribune (CT) - TUESDAY August 25, 1992
By: Rogers Worthington, Chicago Tribune
Edition: NORTH SPORTS FINAL Section: NEWS Page: 1
Word Count: 1,070

...and color reproduction that they pose worrisome problems for law enforcement.

Bad-check artists can **digitize** authentic-looking checks and print them out on safety **paper** using desktop computer publishing systems, Blanco wrote. One leading brand of personal laser printer can even print the magnetic strip on the bottom of a **bank check**, using the proper font.

And a new **digital** color laser copier introduced in May by Xerox is so good, Blanco said, it can...

23/3,K/19 (Item 1 from file: 633)
DIALOG(R)File 633:Phil.Inquirer
(c) 2001 Philadelphia Newspapers Inc. All rts. reserv.

04126488

SUSPECT BOND ISSUES PUT COMMUNITIES IN A BIND
PHILADELPHIA INQUIRER (PI) - MONDAY June 29, 1987
By: Howard Goodman and Barbara Demick, Inquirer Staff Writers
Edition: FINAL Section: LOCAL Page: A01
Word Count: 7,366

... to investigators who have inspected records of the closing on Dec. 31, 1985, Matthews & Wright **presented** two checks that day totaling \$350 million to the trustee **bank**, National Westminster **Bank**, New York. The **checks** were drawn on an account at the New American Federal **Credit Union** in Jersey City, according to an lawyer who has inspected the records. The **checks** were not standard **business** or **personal drafts**, but blank "starter checks" with no account numbers or name **printed** on the face. The words Matthews & Wright were typed in the upper left-hand corner...

23/3,K/20 (Item 1 from file: 640)
DIALOG(R)File 640:San Francisco Chronicle
(c) 2001 Chronicle Publ. Co. All rts. reserv.

09583002

TAXES GET LESS TAXING WEB SITES, SOFTWARE CAN SAVE TIME
San Francisco Chronicle (SF) - TUESDAY, March 24, 1998
By: Laura Castaneda, Chronicle Staff Writer
Edition: FINAL Section: Business Page: C3

Word Count: 718

... by mail, check for mistakes by printing out your completed returns and carefully reviewing them **before sending** them to the IRS.

``We're not perfect, nor are our millions of users,' said...

...your return within a couple of days.

A final caveat: If you have your refund **electronically** deposited into your **bank** account, double **check** your **bank** routing number.

``You don't want the check deposited into someone else's account,' said...

23/3,K/21 (Item 1 from file: 641)
DIALOG(R)File 641:Rocky Mountain News
(c) 2001 Scripps Howard News. All rts. reserv.

09068312

CLEANING UP THE PAPER BLIZZARD

Rocky Mountain News (RM) - Sunday, March 9, 1997
By: Lisa Greim Rocky Mountain News Staff Writer
Edition: Final Section: Business Page: 6F
Word Count: 637

... into a drawer. International Data Corp. analyst Scott McCready figures the cost of finding a **paper** document at \$12.

Take your **checking** account, for example. **Banks** commonly use microfiche to store images of checks. Microfiche is cheap, but it's labor ...

...Chase, StorageTek is selling its Redwood tape system, which can shoehorn 1.25 million check **images** onto a cartridge the size of a **paperback**. A tape silo - visualize a small refrigerator - holds 7 billion checks, is cheaper to manage...

23/3,K/22 (Item 2 from file: 641)
DIALOG(R)File 641:Rocky Mountain News
(c) 2001 Scripps Howard News All rts. reserv.

08332192

BIG FEE LEAVES SMALL BUSINESS FEELING BURNED

Rocky Mountain News (RM) - MONDAY NOVEMBER 27, 1995
By: COURTNEY PRICE
Edition: FINAL Section: BUSINESS Page: 34A
Word Count: 544

...bank fees, goods service and aggressive lending.

Lastly, don't order blank checks from your **bank**. Buy your blank checks in quantity from a check-printing company or you will pay a lot ordering **checks** from your **bank**. There are **several** central sources for **business checks** that can save you 50% or more off ordering from a **bank** such as Checks In The Mail (800-733-4443), Current (800-533-3973), or Image...

23/3,K/23 (Item 1 from file: 702)
DIALOG(R)File 702:Miami Herald
(c) 2001 The Miami Herald Publishing Co. All rts. reserv.

09587043

IT'S IN THE BANK SERVICE GOES HIGH TECH CHECK IMAGING COULD SPARK THE END OF BULKY STATEMENTS

Miami Herald (MH) - Saturday, March 28, 1998
By: INA PAIVA CORDLE Herald Business Writer
Edition: Final Section: Business Page: 1C
Word Count: 991

...more than one-third of all banks will process their checks by imaging.

Unlike most **bank** technology, which often is prohibitively expensive for small **banks**, the reverse has been true with check imaging, said Jennifer Baker, a consultant with Scott Image Associates, a Sanford, N.C.-based firm that has helped 330 **banks** -- including City National -- introduce the service to customers. Until now, the machinery was considered too slow or too expensive to handle the enormous volume of **checks** that major **banks** handle daily. But that is changing, Baker said.

Meanwhile, **many** larger **banks**, including SunTrust and NationsBank, already offer imaging as a fee-or-balances-based service to...

23/3,K/24 (Item 2 from file: 702)
DIALOG(R)File 702:Miami Herald
(c) 2001 The Miami Herald Publishing Co. All rts. reserv.

08058706

**MIAMI MUST PROTECT ITS ADVANTAGES, AUTHOR SAYS OR ELSE OTHER CITIES COULD
MAKE INROADS**

Miami Herald (MH) - SUN September 17, 1995
By: GREGG FIELDS Herald Business Writer
Edition: FINAL Section: BUSINESS Page: 1K
Word Count: 801

... of private-public cooperation, she said. And Boston, with its three centuries of history, has **many** well-established **institutions** to draw upon.

"The **business** community has to get more involved in solving social problems, because you can't count....

23/3,K/25 (Item 3 from file: 702)
DIALOG(R)File 702:Miami Herald
(c) 2001 The Miami Herald Publishing Co. All rts. reserv.

07017518

CAMPAIGN SURPLUSES USED FOR FOOTBALL TICKETS, CHARITIES

Miami Herald (MH) - MON March 15, 1993
By: ASSOCIATED PRESS
Edition: FINAL Section: FRONT Page: 6A
Word Count: 486

... 200 for his personal use. Defeated for re-election last year after writing 898 bad **checks** at the House **bank**, Davis did not return **several** phone calls.

Others say they are reserving judgment on use of their money.

"I'm...

23/3,K/26 (Item 1 from file: 703)
DIALOG(R)File 703:USA Today
(c) 2001 USA Today. All rts. reserv.

05063433

ASK MONEY

USA Today (US) - MONDAY November 6, 1989
Edition: FINAL Section: MONEY Page: 03B
Word Count: 1,028

...we are currently paying 13.18%.

- Pennie Else, Cheshire, Conn.

First of all, since most **banks** ' prime is only 10.5%, your rate should be adjusted to 12% shortly. Naturally, if interest rates fall further, your loan will look all the more attractive. Also, **many banks** allow you to **convert** your home equity line of credit to a fixed-rate second mortgage, so you should double-check your **banker** 's reply. If a **second** mortgage doesn't exceed \$100,000, the interest would be deductible just as if it...

23/3,K/27 (Item 1 from file: 704)
DIALOG(R)File 704:(Portland)The Oregonian
(c) 2001 The Oregonian. All rts. reserv.

08822255

WASHINGTON MUTUAL'S KERRY KILLINGER GETS
Oregonian (PO) - SUNDAY, November 17, 1996
By: ALAN K. OTA - of the Oregonian Staff
Edition: SUNRISE Section: BUSINESS Page: D01
Word Count: 1,547

...branch network in the state.

Washington Mutual has used heavy advertising to quickly build an **image** as a friendly, consumer **bank** . At a time when **many banks** are raising fees, Washington Mutual has built an **image** as a consumer **bank** by offering free checking. In its advertisements, a group of ``Rodeo Grandmas'' from Washington Mutual defend the Northwest against high **banking** fees and California **banks** .

The humorous yet pointed ads reflect Killinger's approach to business.

Analysts say Killinger has...

23/3,K/28 (Item 2 from file: 704)
DIALOG(R)File 704:(Portland)The Oregonian
(c) 2001 The Oregonian. All rts. reserv.

07074099

FORMER LAWMAKERS SPEND LEFTOVER FUNDS
OREGONIAN (PO) - MONDAY, March 15, 1993
By: LARRY MARGASAK - The Associated Press
Edition: SECOND Section: WIRE STORIES Page: A08
Word Count: 741

... 200 for his personal use. Defeated for re-election last year after writing 898 bad **checks** at the House **bank** , Davis did not return **several** phone calls seeking comment.

Others say they are reserving judgment on use of their money...

23/3,K/29 (Item 1 from file: 713)
DIALOG(R)File 713:Atlanta J/Const.
(c) 2001 Atlanta Newspapers. All rts. reserv.

08640161

THE GEORGIA 100 Best of Business Carastar misses top 10 by paper-thin margin Upward bound: Profit, revenue continue to grow for the **Austell-based paper recycler**.
Atlanta Constitution (AC) - Sunday, May 19, 1996
By: Susan Harte STAFF WRITER
Section: BUSINESS Page: G/21
Word Count: 5,709

CAPTION:

... Protection.....\$49.20..... 64.60% 18.....Mountasia
 Entertainment.....\$46.20..... 64.00% 19.....Century
 South **Banks**\$65.90..... 63.00% 20.....Isolyser
\$75.40..... 61.70% 21.....Friedman's
\$137.60...

... PUBLIC COMPANIES COMPANY..... TICKET..BUSINESS
SYMBOL Aaron Rents..... ARONA..
 Furniture rental, sales ABC Bancorp..... ABCB...**Banking**
 Abrams Industries..... ABRI...Construction, real estate ADAM
 Software..... ADAM...Anatomical software AER Energy
 Resources.....AERN...Battery development AFLAC.....
 . AFL... Insurance AGCO.....AG.....Farm equipment
 Allied **Bankshares** ABGA... **Banking** Allegiant
 Physicians.....ALPS...Physician management Allied Holdings.....
 ... HAUL...Car hauling Alumax.....AMX... Aluminum
 production Am...

...Group.....ATYG...Computer/software services Atlantis Plastics.....
 ... AGH... Plastics products Automobile Protection..... APCO...Service
 warranties **Bankers** Note.....TBN... Women's apparel Beazer
 Homes.. USA.....BZH... Home building BellSouth.....
 BLS... Telecommunications Bio...

... Carmike Cinemas..... CKE... Movie theater chain Caraustar
 Industries.....CSAR...Recycled paper products CCF Holding.....
 CCFH... **Banking** Central & Southern Holding....CSBC...**Banking**
 Century South **Banks** CSBI... **Banking** **CheckFree**
 CKFR... **Electronic** payment software Checkmate
Electronics CMEL... **Electronic** check readers Classic
 Restaurants Int'l.... CRET...Dinner theaters CNL Financial.....
 CNLF...Insurance Coca-Cola...

... transportation Digital Transmission.....DTSXU.. Communications
 equipment Dorsey Trailers..... DSYT...Truck trailer manufacturing
 Eagle Bancshares.....EBSI... **Banking** Electromagnetic
 Sciences.....ELMG...Wireless communications EQK Realty.....
 .EKR... Real estate development Equifax..... EFX...
 Information services EquiMed..... EQMD...Managed health
 care Fayette Co. Bancshares.....FCBS... **Banking** Fidelity
 National..... LION...**Banking** First Alliance Bancorp.....FABC..
 ..**Banking** First **Banking** Co. of SE Ga. . FBCC...**Banking** First Georgia
 Holding..... FGHC... **Banking** First Fed. Svgs. Brunswick...FFBG...
Banking First Liberty Financial..... FLFC... **Banking** First
 State..... FSBT... **Banking** Fisher Business Systems.....
 FBUS...Software Flag Financial.....FLAG... **Banking** Flowers
 Industries.....FLO.... Baked, frozen foods Friedman's.....
FRDM...Jewelry stores Fuqua Enterprises..... FQE... Leather
 ...chemicals National Vision Associates...NVAL...Eye-care center operator
 Network Connection.....TNCX...Software Newnan Savings **Bank**
 NFSL... **Banking** Norrell..... NRL...
 Temporary help Nova.....NIS... Credit care
 transactions Omni Insurance.....OMGR...Insurance Oxford
 Industries...

... Industries..... SHX... Carpet production Southern
 Co.....SO.....Electric utility Southern Electronics.....
 .SECX...Computer peripherals SunTrust **Banks**STI...
Banking Surgimetrix.....SGMU...Surgical supplies Synovus
 Financial..... SNV... Financial services Syntellect.....
SYNL...Voice response systems Tapistron...

... Mills..... TMSTA.. Textiles 3D Image Technology.....
 TDIT...3-D cameras Total System Services..... TSS... Credit/**bank**
 card processing Transcend..... TRCR...Health care
 Trism..... TRSM...Hauler Turner Broadcasting.....
 TBSA,.. TBS Movies/cable...

... Miller Industries.....97.10% 13.....National
Data.....96.40% 14.....Inbrand.....
.....93.60% 15.....First **Banking** Co. of SE
Georgia.....90.90% 16.....Immucor.....
.....89.30% 17.....First Fed. Savings **Bank** Brunswick.....85.70%
18.....Isolyser..... 83.30% 19.....Savan
nah Bancorp..... 81.00% 20.....Davis Water...

... 50.00% 34.....Buckhead America..... 50.00%
35.....First Georgia Holding.....50.00% 36.....Check
mate **Electronics**48.60% 37.....Coca-Cola
Enterprises.....47.90% 38.....Health **Images**
.....47.50% 39.....Caraustar Industries.....
... 47.10% 40.....Coca-Cola.....46.80%
41.....ABC Bancorp...

... Industries.....34.30% 53.....Metromedia International
Group..... 31.70% 54.....Alumax.....
.. 31.60% 55.....SunTrust **Banks** 30.80%
56.....American Business Products..... 29.90% 57.....Beaze
r Homes USA..... 29.60% 58...

... 80% 73.....Equifax.....19.30%
74.....Wireless Cable of Atlanta.....18.80% 75.....Centu
ry South **Banks**17.30% 76.....Cousins
Properties..... 17.30% 77.....Southern Co.....
..... 17.20% 78.....AFLAC.....
.....16...

... 15.60% 80.....Carmike Cinemas.....15.20%
81.....Killearn Properties.....15.00% 82.....Newna
n Savings **Bank**14.00% 83.....New World
Communications Group..... 13.80% 84.....Genuine Parts.....
.....12.90% 85.....Flowers Industries.....
.. 12.50% 86.....Merry Land & Investment.....11.50%
87.....Allied **Bankshares**11.30% 88.....Hav
erty Furniture.....11.20% 89.....Brock Internationa
l.....10.70% 90.....Post Properties...6,773.00.....
12.70% 9.... Genuine Parts..... \$5,261.90.....8.30%
10....SunTrust **Banks**\$3,740.30..... 15.00%
11....Turner Broadcasting System.....\$3,437.40..... 22.40% 12...

23/3,K/30 (Item 1 from file: 715)
DIALOG(R)File 715:Christian Sci.Mon.
(c) 2001 Christian Science Monitor. All rts. reserv.

06281011

SCANDALS REKINDLE TALK OF TERM LIMITS

Christian Science Monitor (CH) - Tuesday, October 8, 1991

By: Linda Feldmann, Staff writer of The Christian Science Monitor

Edition: All Section: THE U.S. Page: 6

Word Count: 680

...drive to limit politicians' terms. Turns out more than 100 House members
bounced 8,331 **checks** at the "House **Bank** ," **many** of them for more than
\$1,000, and didn't have to pay penalties like...

23/3,K/31 (Item 1 from file: 725)
DIALOG(R)File 725:(Cleveland)Plain Dealer
(c) 2000 The Plain Dealer. All rts. reserv.

08217015

BE AWARE OF BANKS' FEES FOR SERVICES

Plain Dealer (Cleveland) (PD) - Saturday, August 5, 1995

By: BILL LUBINGER

Edition: FINAL / ALL Section: FAMILY Page: 3E

Word Count: 676

...instead of more expensive fancy, frilly ones.

Better yet, Eisenson said, don't buy your **checks** from a **bank** at all. **Many** companies now print checks more cheaply. Get quotes from some of them before ordering your next batch from the **bank**. Three such companies are Checks in the Mail, (800) 733-4443, Current, (800) 533-3973...

23/3,K/32 (Item 2 from file: 725)
DIALOG(R)File 725:(Cleveland)Plain Dealer
(c) 2000 The Plain Dealer. All rts. reserv.

06218179

NEW TECHNOLOGY HELPS BANKS PROCESS CHECKS ELECTRONIC IMAGING CUTS COSTS, IMPROVES SERVICE

Plain Dealer (Cleveland) (PD) - Tuesday, August 6, 1991
By: MIRIAM HILL PLAIN DEALER REPORTER
Edition: FIRST / WEST Section: BUSINESS Page: 6F
Word Count: 913

NEW TECHNOLOGY HELPS BANKS PROCESS CHECKS ELECTRONIC IMAGING CUTS COSTS, IMPROVES SERVICE

...to process payments, resolve customer disputes and keep better records.

Eventually, they hope to trade **electronic** images rather than **paper** back and forth between **banks** during the **check**-clearing process, drastically reducing processing and transportation costs.

"I'm as excited about image processing...

... they never received checks. Eventually, the Fed, which processes more than one-third of all **personal checks**, hopes to trade **images** of checks rather than the actual **paper** with the **banks** to which it provides check-clearing services.

Banc One Services Corp. has been using imaging...

23/3,K/33 (Item 1 from file: 710)
DIALOG(R)File 710:Times/Sun.Times(London)
(c) 2001 Times Newspapers. All rts. reserv.

08072686

Revenge of a cuckold; Alan Clark; James Harkess family

Times of London (TL) - Sunday, June 5, 1994
By: Margarette Driscoll and Andrew Malone
Section: Features
Word Count: 2,110

... on themselves by doing so will no doubt be soothed by the deposit in their **bank** of a large **cheque**.

Additional reporting: Sarah Crowe in Cape Town and Rajeev Syal.

23/3,K/34 (Item 1 from file: 711)
DIALOG(R)File 711:Independent(London)
(c) 2001 Newspaper Publ. PLC. All rts. reserv.

06181116

Money Grouse

Independent (IN) - Saturday, June 29, 1991
Section: Money Page: 20
Word Count: 338

...don't see why I should undergo credit vetting just to get a pounds 100 **cheque** guarantee card.'

Most **banks** and **many** building societies now offer a pounds 100 cheque guarantee facility, but very few offer it...

... the hope that we stop writing expensive-to-process cheques and convert to cheaper electronic **banking** .

Until the banks and building societies change their minds on this issue of separate cheque..

Set	Items	Description
S1	0	AU=(GEER T? OR GEER, T?)
S2	4243	(BANK? OR PERSONAL? OR BUSINESS?) (3N) (CHECK? OR CHEQUE? OR DRAW? OR WITHDRAWAL? OR DRAFT? OR DRAUGHT?) OR FINANCIAL() INSTRUMENT?
S3	73	S2 (S) (CONVERT? OR SCAN? OR DIP OR IMAGE? OR IMAGING OR DIGITIZE? OR TRANSLATE? OR CONVERSION)
S4	946	(PRIOR? OR BEFORE? OR FIRST? OR ANTE) (3N) (SUBMIT? OR SUBMISSION? OR TRANSMISSION? OR TRANSMIT? OR SEND? OR DELIVER?)
S5	207454	(BANK? OR INSTITUTION? OR SAVINGS(N) LOAN OR CREDIT() UNION?)
S6	698	(PAPER? OR HARDCOP? OR HARD() (COPY OR COPIES) OR PRINTED) - AND (ELECTRONIC? OR DIGITAL? OR VIRTUAL? OR CYBER? OR DIGITIZED)
S7	31	S6 AND (COMMINGL? OR INTERMINGLED OR COMBINE? OR BOTH? OR MIXED OR INTERMIXED OR HETEROGEN?)
S8	75693	SETTLEMENT? OR PRESENT? OR PAYOR? OR PAYEE?
S9	4009	(MULTIPL? OR SEVERAL? OR PLURAL? OR MANY OR ADDITIONAL? OR SECOND OR 2ND) (4N) S5
S10	0	S3 AND S4
S11	0	S3 AND S7
S12	0	S2 AND S7
S13	1	S3 AND S9
S14	0	S3 AND S6
S15	1	S5 AND S7 AND (S8 OR S9)
S16	2	S13 OR S15
S17	2	RD (unique items)

File 473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02
(c) 2001 THE NEW YORK TIMES

File 474:New York Times Abs 1969-2001/Jul 26
(c) 2001 The New York Times

File 475:Wall Street Journal Abs 1973-2001/Jul 25
(c) 2001 The New York Times

17/3,K/1 (Item 1 from file: 474)
DIALOG(R)File 474:New York Times Abs
(c) 2001 The New York Times. All rts. reserv.

06266689 NYT Sequence Number: 918679920314
17 IN THE REGION ADMIT OVERDRAFTS
GRUSON, LINDSEY
New York Times, Col. 5, Pg. 1, Sec. 1
Saturday March 14 1992

ABSTRACT:

...certainty of full disclosure hanging over them, acknowledge that they had written overdrafts on their **checking** accounts at House **Bank** ; **many** try to put best face on **scandal** that began as administrative foul-up but now threatens some political careers; comments by Repr...

17/3,K/2 (Item 2 from file: 474)
DIALOG(R)File 474:New York Times Abs
(c) 2001 The New York Times. All rts. reserv.

00389363 NYT Sequence Number: 044703731120
Fed Reserve on Nov 19 issues plan to transfer funds between banks electronically as substitute for checks; is concerned over growing use of paper checks, whose vol is estimated at 28-billion yrly and which would double in 10 yrs at present rate of growth; proposal is to both send and collect funds electronically for banks that are members of Fed Reserve System; Fed says it is seeking comment from financial insts and public on broader issues of how system would be operated and who would operate it)
New York Times, Col. 1, Pg. 63
Tuesday November 20 1973

Fed Reserve on Nov 19 issues plan to transfer funds between banks electronically as substitute for checks; is concerned over growing use of paper checks, whose vol is estimated at 28-billion yrly and which would double in 10 yrs at present rate of growth; proposal is to both send and collect funds electronically for banks that are members of Fed Reserve System; Fed says it is seeking comment from financial...

DESCRIPTORS: **BANKS** AND **BANKING** ; DATA PROCESSING (INFORMATION PROCESSING) **EQUIPMENT** AND **SYSTEMS**; **ELECTRONICS**

Set	Items	Description
S1	4	AU=(GEER T? OR GEER, T?)
S2	171398	(BANK? OR PERSONAL? OR BUSINESS?) (3N) (CHECK? OR CHEQUE? OR DRAW? OR WITHDRAWAL? OR DRAFT? OR DRAUGHT?) OR FINANCIAL() INSTRUMENT?
S3	9117	S2 (S) (CONVERT? OR SCAN? OR DIP OR IMAGE? OR IMAGING OR DIGITIZE? OR TRANSLATE? OR CONVERSION)
S4	269638	(PRIOR? OR BEFORE? OR FIRST? OR ANTE) (3N) (SUBMIT? OR SUBMISSION? OR TRANSMISSION? OR TRANSMIT? OR SEND? OR DELIVER?)
S5	8188103	(BANK? OR INSTITUTION? OR SAVINGS(N) LOAN OR CREDIT() UNION?)
S6	760454	(PAPER? OR HARDCOP? OR HARD() (COPY OR COPIES) OR PRINTED) - AND (ELECTRONIC? OR DIGITAL? OR VIRTUAL? OR CYBER? OR DIGITIZED)
S7	374255	S6 AND (COMMINGL? OR INTERMINGLED OR COMBINE? OR BOTH? OR MIXED OR INTERMIXED OR HETEROGEN?)
S8	5114859	SETTLEMENT? OR PRESENT? OR PAYOR? OR PAYEE?
S9	399120	(MULTIPL? OR SEVERAL? OR PLURAL? OR MANY OR ADDITIONAL? OR SECOND OR 2ND) (4N) S5
S10	21	S3 (10N) S4
S11	697	S3 (10N) S7
S12	2589	S2 (10N) S7
S13	285	S3 (10N) S9
S14	1083	*deleted* S3 (10N) S6
S15	529	S11 AND S12
S16	24	S15 AND S13
S17	494	S14 AND S15
S18	20	S11(S) S9(S) S8
S19	0	S1 AND S3
S20	57	S10 OR S16 OR S18
S21	35	RD (unique items)
S22	23	S21 NOT PY>1998
File	15:ABI/Inform(R)	1971-2001/Jul 25 (c) 2001 ProQuest Info&Learning
File	9:Business & Industry(R)	Jul/1994-2001/Jul 24 (c) 2001 Resp. DB Svcs.
File	623:Business Week	1985-2001/Jul W4 (c) 2001 The McGraw-Hill Companies Inc
File	810:Business Wire	1986-1999/Feb 28 (c) 1999 Business Wire
File	275:Gale Group Computer DB(TM)	1983-2001/Jul 23 (c) 2001 The Gale Group
File	624:McGraw-Hill Publications	1985-2001/Jul 25 (c) 2001 McGraw Hill Co. Inc
File	813:PR Newswire	1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc
File	636:Gale Group Newsletter DB(TM)	1987-2001/Jul 24 (c) 2001 The Gale Group
File	621:Gale Group New Prod. Annou. (R)	1985-2001/Jul 24 (c) 2001 The Gale Group
File	16:Gale Group PROMT(R)	1990-2001/Jul 24 (c) 2001 The Gale Group
File	610:Business Wire	1999-2001/Jul 25 (c) 2001 Business Wire.
File	148:Gale Group Trade & Industry DB	1976-2001/Jul 24 (c) 2001 The Gale Group
File	20:World Reporter	1997-2001/Jul 25 (c) 2001 The Dialog Corporation

22/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01518615 01-69603

Federal Reserve stirs renewed debate with aim to stay in processing business

Marlin, Steven
Bank Systems & Technology v34n11 PP: 8 Nov 1997
ISSN: 1045-9472 JRNL CODE: BSE
WORD COUNT: 852

...TEXT: 62 billion checks.

Other reasons offered for the Fed's decline in check volume include **electronic** check **presentment** (ECP), **check** **imaging** , **banking** consolidation (resulting in more "on-us" **checks**) and **electronic** **banking** (resulting in fewer **paper** checks). The Fed traditionally has been the service provider of last resort to **many** small rural **banks** not served by the clearinghouses, which today mainly serve banks in major metropolitan areas. With...

22/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01427190 00-78177

Checks at a crossroads

Klinkerman, Steve
Banking Strategies v73n3 PP: 32-38 May/Jun 1997
ISSN: 1049-1775 JRNL CODE: BAD
WORD COUNT: 2533

...TEXT: bankers should move decisively, they said, in setting check strategy and leading the transition from **paper** to **electronic** payments.

Banking Strategies: Does the **check** have a future? Harris: Obviously. The prevailing view is that customers will use it for...information contained in the magnetic ink characters printed at the bottom of checks. By establishing **electronic** notification of bad **check** returns, **banks** can reduce fraud. **Many** processing tasks can be based on **images** of checks, cutting **paper** -handling expenses. And advanced skills in managing transaction information can **translate** into new cash management products and revenues. From these four initiatives, a bank with \$100...

22/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01060539 97-09933

Outsourcing a core competency

Cantrell, Wanda
United States Banker v105n3 PP: 57-58 Mar 1995
ISSN: 0148-8848 JRNL CODE: USI
WORD COUNT: 1427

...TEXT: least of these is the substantial investment required to implement new processing technology such as **imaging** , and **many** **banks** with aging reader/sorter and other equipment are facing such investments. Even if banks are willing to spend, **image** technology remains relatively unproven on a mass scale, and **many** **banks** don't know hat systems to place their bets on.

Another factor is consolidation among...

...Ward terms partnerships. Today, there are two main factors driving banks toward imaging technology, and **both** coincide with renewed interest in

outsourcing **check** processing functions.

First, **banks** are concerned with reducing check operations costs, and image technology promises the first real efficiency...

... corporate clients on CD-ROM, for instance, could strengthen those relationships, bankers says. In retail **banking**, providing **images** of **checks** to customers rather than a bundle of **paper** each month may give some banks a competitive advantage.

"A CEO of a very large...

22/3,K/4 (Item 4 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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01042449 96-91842

An emerging technology to watch

Abugattas, Alonso

Texas Banking v84n4 PP: 1, 5+ Apr 1995

ISSN: 0885-6907 JRNL CODE: TXB

WORD COUNT: 1772

...TEXT: are running fully-integrated image-based check processing that can capture, process and store check **images** (offering full proof of deposit functions). In the meantime, **several** other **banks** are looking at **checking** statements that can include near-photographic **images** of the canceled checks, rather than the checks themselves.

Given the volume of checks in...transmitted early on, there is no pressing need to transport checks physically to the paying **bank**.

ECP (**electronic check** presentment) diminishes the need for speedy delivery of checks and, therefore, saves transportation costs. ECP...

... bank and have it paid that same day. These rules can highlight the need for **electronic** check presentment. **Imaging** and **electronic** check presentment are transforming the entire check clearing system, which now relies almost entirely on...

... The inevitable, full-scale check-image processing, will become a reality, beginning with truncation of **paper** checks at the **bank** of first deposit. **Electronic** exchange of **digitized** check **images** will ultimately replace presentment of physical checks as **electronic** check clearing and **image** -to- **image** communication among **banks** become more common.

Many legal, technical and financial barriers have yet to be crossed, but the potential gains appear...

22/3,K/5 (Item 5 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2001 ProQuest Info&Learning. All rts. reserv.

00813075 94-62467

Using advanced computing techniques in banking

Curry, Bruce; Moutinho, Luiz

International Journal of Bank Marketing v11n6 PP: 39-46 1993

ISSN: 0265-2323 JRNL CODE: IJB

WORD COUNT: 5739

...TEXT: goal of image processing in banking. Digitized documents stored on a computer are accessible to **many** departments of the bank. **Banks** may one day pay from images instead of **cheques**. **Banks** will push for **electronic** transmissions as a way to reduce float time and lower risk. Imaging technologies are already...

22/3,K/6 (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00806174 94-55566

Banks turn imaging into speedy new delivery products

Arnette, Denise A

Corporate Cashflow v15n1 PP: 12-13 Jan 1994

ISSN: 1040-0311 JRNL CODE: CFL

WORD COUNT: 731

...ABSTRACT: review, the First National Bank of Maryland and Chase Manhattan Bank, seem to be the **first banks to deliver check images** directly to a company's personal computer. First National worked extensively with one of its...

...TEXT: National Bank of Maryland, Baltimore, and Chase Manhattan Bank, New York, seem to be the **first banks to deliver check images** directly to a company's personal computer.

J. William Murray, senior vice president at First...

22/3,K/7 (Item 7 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00616425 92-31527

How Technology Is Changing Banking

Gart, Alan

Journal of Retail Banking v14n1 PP: 35-43 Spring 1992

ISSN: 0195-2064 JRNL CODE: JRB

WORD COUNT: 5123

...TEXT: image processing, smart cards, home banking services, and videotex systems and their impact on the **banking** industry.

IMAGE PROCESSING--At **many banks**, **check** processing equipment is approaching replacement age. These banks are considering replacing the old equipment with computers using image technology, an offshoot of NASA research. **Image** processing uses optical **scanning** systems to produce **digitized images**, which are captured, stored, and transmitted **electronically**.

Image processing can be used to convert checks, deposit slips, loan applications, credit card receipts... customers move to cut costs and improve their cash management. In addition, consumer acceptance of **electronic** credits and debits is increasing.

The cost savings to **banks** from **check** displacement are considerable. Increased use of ACH should generate more timely receivables and reduced operating...

22/3,K/8 (Item 8 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00610394 92-25497

Imaging: Cultivating the Right Strategy

Radding, Alan

Bank Management v68n4 PP: 58-65 Apr 1992

ISSN: 0024-9823 JRNL CODE: BAD

WORD COUNT: 3661

...TEXT: pressure to plunge into imaging for a few more years at least.

IRRESISTIBLE ATTRACTION

Still, **many** **bank** managers are finding the pull of the **imaging** bandwagon as it picks up speed almost irresistible. In February, no fewer than three banks... access, and process electronically correspondence related to customer problems; and interbank information transfer, where sales **drafts** are passed between **banks** on the network. **Both** MasterCard and Visa are rolling out systems to send **images** of sales drafts across the network.

"We have an imaging project to automate the retrieval...
...the organization wants to automate the entire process whereby the system identifies key fields, recognizes **both** machine-and hand-written characters, and **translates** them into machine-readable code.

Credit card organizations may not have to wait long for...

22/3,K/9 (Item 9 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00603537 92-18640
Strides in Electronic Checking Transforming Payment System
Carreker, J. D.
Bank Management v68n3 PP: 18-30 Mar 1992
ISSN: 0024-9823 JRNL CODE: BAD
WORD COUNT: 4539

ABSTRACT: At the core of the technological transformation of bank payment systems is electronic check **presentment** (ECP), now used to debit customer accounts before the corresponding **paper** checks arrive. **Image** processing works with ECP to short-circuit expensive and unwieldy **paper** -intensive practices. Electronic data interchange (EDI) and ECP are expected to converge to good effects...

... could cut banks' check expense by as much as 50%. Due to these telecommunications technologies, **several** large **banks** are actively pursuing development of a national payment system. ECP has the capacity to combat...

22/3,K/10 (Item 10 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2001 ProQuest Info&Learning. All rts. reserv.

00532298 91-06642
Bank Insiders Look Hard at '91 Bank by Bank
Iacobuzio, Theodore; Kass, Rochelle
Bank Systems & Technology v28n1 PP: 44-52 Jan 1991
ISSN: 1045-9472 JRNL CODE: BSE
WORD COUNT: 3226

...TEXT: workstation. "We have already begun to realize significant improvement in productivity," Singleton points out.

To **many** **banks** **imaging** is just a concept to be bandied about at cocktail parties, but not at Security...

... although the overwhelming majority are taking a crack at check processing. "Eventually we'll see **electronic settlement** between **banks** instead of shipping **checks** ," Singleton predicts. "It obviously drives down costs significantly and savings can be in excess of..."

22/3,K/11 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2001 Resp. DB Svcs. All rts. reserv.

02325578 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Pushing Home Banking On To The Fast Track

(While 59% of the leading 150 banks in the US are providing home banking services, less than 5% of Americans have become online banking subscribers)

Financial Service ONLINE, p 35+

November 1998

DOCUMENT TYPE: Journal; Survey ISSN: 0746-892X (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 4117

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...in a complex puzzle they must solve before home banking can become commonplace.

Electronic bill **presentment** is expected to provide two important benefits to home banking, according to most industry experts...

...to their banks' Web pages where they also are likely to pay their bills and **check** out **bank** products and services. **Second**, **electronic** bill **presentment** improves the economic models for home banking and bill payment by shifting some of the expense that currently is borne by banks and their customers to the billers. Bill **presentment** also provides potential new advertising and service revenue for banks. "The great promise in bill **presentment** is the creation of a round-trip solution where consumers can easily access and pay...

...president of Princeton Telecom, Princeton, N.J., who is one those who believe that bill **presentment** is "the killer app" that will propel home banking. "The real promise is that consumers...

22/3,K/12 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2001 The Gale Group. All rts. reserv.

01765937 SUPPLIER NUMBER: 16742780 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Banking on cooperation. (Financial Services Technology Consortium) (PCWeek Executive)

Radosevich, Lynda

PC Week, v12, n12, pE4(1)

March 27, 1995

ISSN: 0740-1604 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1103 LINE COUNT: 00086

...ABSTRACT: require banks to send paper checks for payment. Initial interchange work is being handled by **Electronic** Check **Presentment** (ECP), a method that transmits **check** information between **banks** before a **paper** **check** is sent.

... Preliminary interchange work is being done via Electronic Check Presentment (ECP), a technique for transmitting **check** information between **banks** before they send on the paper.

The FSTC's interbank check-imaging project proposes to let the bank...

22/3,K/13 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2001 The Gale Group. All rts. reserv.

02986350 Supplier Number: 46089401 (USE FORMAT 7 FOR FULLTEXT)

Banks Offer Image Processing

Corporate EFT Report, v16, n1, pN/A

Jan 24, 1996

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 1290

... the image on microfilm or pulling a paper check out of a storage box, the **banks** say.

"Many [banks] anticipate that they will be able to resolve telephone inquiries while the **payee** or customer is still on the phone," added Mary Ann Hardy, an image product manager...

22/3,K/14 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2001 The Gale Group. All rts. reserv.

02659839 Supplier Number: 45388928 (USE FORMAT 7 FOR FULLTEXT)
NACHA MOVES INTO ELECTRONIC CHECKS
Corporate EFT Report, v15, n4, pN/A
March 8, 1995
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1150

... to electronic ones: whether truncation efforts should start at the point of sale or in **bank -to-bank check transmissions**. **First** Meeting in April

The new group -- modelled on other NACHA-sponsored groups like the Bankers...

22/3,K/15 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2001 The Gale Group. All rts. reserv.

01714471 Supplier Number: 42779256 (USE FORMAT 7 FOR FULLTEXT)
DESPITE OBSTACLES, FUTURE HOLDS PROMISE FOR CHECK PROCESSING
Electronic Imaging Report, v2, n4, pN/A
Feb 26, 1992
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1192

... is still working to lay the technical/standards foundation for the high-end jobs:

1) **Scan** checks at the point of **first** deposit and immediately **transmit** them to a remote site for processing. From there, the check images could be sent...

22/3,K/16 (Item 4 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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01708998 Supplier Number: 42763181 (USE FORMAT 7 FOR FULLTEXT)
TELECOM ADVANCES MAY CAUSE OVERHAUL OF CHECKING INDUSTRY
Financial Services Report, v9, n4, pN/A
Feb 19, 1992
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1274

... managers are already exploring ways to tap into telecom advances. One popular idea is to **scan** checks at the point of **first** deposit and immediately **transmit** them to a remote site for processing. From there, the check images could be sent...

22/3,K/17 (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2001 The Gale Group. All rts. reserv.

01499679 Supplier Number: 42109405 (USE FORMAT 7 FOR FULLTEXT)
IMAGE PROCESSING: FUTURE APPEARS EXCITING YET PERPLEXING
Item Processing Report, v2, n11, pN/A
May 30, 1991
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 713

... they are known today. Low-speed capture devices will be used at the point of **first** deposit to **send**, at a low cost, check **images** to the main check processing operations in the bank. Couriers will no longer be needed...

22/3,K/18 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2001 The Gale Group. All rts. reserv.

09749681 SUPPLIER NUMBER: 19785811 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Combating check fraud with EDI. (electronic data interchange)
Moynihan, James J.
Healthcare Financial Management, v51, n8, p92(2)
August, 1997
ISSN: 0735-0732 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 672 LINE COUNT: 00056

...ABSTRACT: availability of modern computer technology. Fortunately, check fraud can be eliminated by using EDI. Eliminating **paper**-based procedures and adopting **electronic** funds transfer (EFT) can prevent **check** fraud. **Several banks** are offering a service known as 'comprehensive payables' to help healthcare providers convert to EFT.

22/3,K/19 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2001 The Gale Group. All rts. reserv.

08298459 SUPPLIER NUMBER: 17742322 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Finding savings, benefits on road to paperless banking. (Column)
Emerson, Geoff
American Banker, v160, n216, p17(1)
Nov 8, 1995
DOCUMENT TYPE: Column ISSN: 0002-7561 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 903 LINE COUNT: 00077

... 10 years.
Given today's other clear trend in banking - consolidation - the need to handle **paper** will be even greater among the surviving **banks**. While **check** volumes grew a modest 3% in 1994 across all U.S. financial institutions, check volumes...

...costs and improve customer service? Two technologies that have attempted to accomplish this independently are **electronic** check **presentment** (ECP) and **check imaging**.

While **many banks** are running ECP pilots, the technology still accounts for less than 5% of all transactions...

22/3,K/20 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2001 The Gale Group. All rts. reserv.

07247221 SUPPLIER NUMBER: 15344763 (USE FORMAT 7 OR 9 FOR FULL TEXT)
N.Y. Clearing House finds better way to handle bad checks. (New York Clearing House Association)
Strachman, Daniel
American Banker, v159, n78, p3A(1)

April 25, 1994

ISSN: 0002-7561

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1217

LINE COUNT: 00089

...ABSTRACT: permits its member banks to identify bad checks before they bounce. Receiving banks send electronic **images** of the **checks** to the paying **banks** **before** sending the actual **checks**. Thus, the issuing **banks** can determine whether the check is good before it arrives, and losses are reduced. The...

22/3,K/21 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2001 The Gale Group. All rts. reserv.

06519353 SUPPLIER NUMBER: 13823382 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Check-processing poll finds slower advances. (Banker Administration Institute's annual check-processing survey) (Technology/Operations)

Barthel, Matt

American Banker, v158, n104, p3(1)

June 2, 1993

ISSN: 0002-7561

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 733

LINE COUNT: 00059

... significantly affected by image technology, which promises to dramatically reduce the paper shuffling associated with **check** processing.

But many **bankers** and consultants believe it is only a matter of time **before** **imaging** begins to **deliver** processing improvements comparable only to those created when magnetic ink encoding was first introduced in...

22/3,K/22 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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06412336 SUPPLIER NUMBER: 13511679 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Fed improving services with image technology. (Federal Reserve System)

Iida, Jeanne

American Banker, v158, n30, p3(1)

Feb 16, 1993

ISSN: 0002-7561

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 557

LINE COUNT: 00043

... won approval last week from its pricing policy committee for the image-based enhancements to **check** services for commercial **banks**.

The Fed banks must **submit** individual proposals **before** offering the services.

Several banks may offer them by yearend, said Joanna Frodin, national check...

22/3,K/23 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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05588012 SUPPLIER NUMBER: 11649841 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Companies affected by bank shift to imaging technology. (Trends)

Gage, Theodore Justin

Corporate Cashflow Magazine, v12, n12, p15(2)

Nov, 1991

ISSN: 1040-0311

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 923

LINE COUNT: 00071

...ABSTRACT: largely to their potential in trimming bank back-office costs, particularly in the storage of **paper** documents such as **checks**.

Many **banks** are looking beyond current applications and are deeply interested in the possibility of utilizing imaging...

... is typed or printed.

One of the first payoffs will come from sending retail customers **images** of their checks rather than the **paper** originals. Within a year or two, corporate treasury managers wanting to see copies of checks may get **image** reproduction instead of **paper checks**. **Banks** storing data files instead of microfiche could respond to a request for an individual check...

...capabilities can simply exchange images instead of relying on the postal system to move the **checks** from **bank** to **bank**," Mr. Mackinaw says.

"Since we'd have an **electronic image** of the check--front and back--why ship **paper** checks all around the country?"

Imaging may also enhance account reconciliation. "Imaging, combined with MICR...